ORDER NO. BSD0109M622

Service Manual

Digital Video Cassette Recorder / Component Serial Interface Board / Digital Video Interface Board / Cassette Adapter

DVCPRO

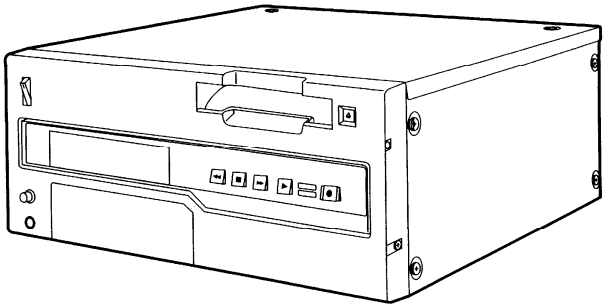
Refer to

BSD0103M901

(CD-ROM No.11/BSD01051K0X)
DVCPRO MECHANISM
Version 2

for Mechanical Adjustment.

AJ-D455E/MC / AJ-YA455P / AJ-YAD455P / AJ-CS455P



© 2001 Matsushita Electric Industrial Co., Ltd. All rights reserved.
Unauthorized copying and distribution is a violation of law.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Please refer to the Operating Instructions in the appendix folder. / (Go to Appendix List)

Panasonic

AJ-D455E/MC

Specifications

GENERAL

Power supply: AC 220 – 240 V, 50 – 60 Hz
Power consumption: 95 W

▭ is the safety information.

Operating ambient temperature: 5°C to 40°C
Operating ambient humidity: 10% to 90% (no condensation)
Weight: 14.3 kg
Dimensions (W × H × D): 424 × 175.2 × 415 mm
Recording format: DVCPRO format/DV format
Recording video signals: 625i
Recording audio signals: 48 kHz, 16 bits, 2 channels (DVCPRO)
Recording tracks: Digital video/audio; helical track
Time code; Recorded in sub-code area
Digital audio; 2 channels
Cue Track; 1 track
Control (CTL); 1 track
Tape speed: 33.854 mm/sec
Recording time: 126 minutes (with AJ-P126LP)
66 minutes (with AJ-P66MP)
Tape: 1/4-inch thin magnetic layer metal tape
FF/REW time: Less than 3 min (with AJ-P126LP)
Less than 2 min (with AJ-P66MP)
Editing accuracy: ±0 frame (using time code)
Tape timer accuracy: ±1 frame (using continuous CTL signal)
Servo lock time: Less than 0.5 sec. (colour framing/standby ON)

VIDEO

(Digital video)
Sampling frequencies: Y; 13.5 MHz/P_B, P_R; 3.375 MHz
Quantizing: 8 bits
Video compression system: DV-based compression (SMPTE314M)
Video compression ratio: 1/5 (DVCPRO)
Error correction: Reed-Solomon product code
Video recording/playback bit rate: 25 Mbps (DVCPRO)
Samples × number of effective lines: 720 × 576/frame (DVCPRO)

(Digital IN/Analogue component OUT)
Video bandwidth: Y; 25 Hz to 5.5 MHz (±1.0 dB)
P_B, P_R; 25 Hz to 1.3 MHz (±1.0 dB)
S/N ratio: Better than 56 dB
K factor: Less than 2%

(Analogue component IN/Analogue component OUT)
Video bandwidth: Y; 25 Hz to 5.5 MHz (–1.5 dB to +1.0 dB)
P_B, P_R; 25 Hz to 1.3 MHz (–2.0 dB to +1.0 dB)
S/N ratio: Better than 55 dB
K factor: Less than 2%

(Analogue composite IN/Analogue composite OUT)
Video bandwidth: Y; 25 Hz to 5.5 MHz (–3 dB to +1.5 dB)
DG: Less than 4%
DP: Less than 3°
Y/C delay: Better than 20 ns
K factor: Less than 3%
S/N ratio: Better than 48 dB

(Video input connector)
Analogue component input: BNC×3 (Y, P_B, P_R)
Y; 1.0 Vp-p, 75Ω
P_B, P_R; 0.7 Vp-p, 75Ω (100% colour bar)
Analogue composite input: BNC×2, loop-through, 75Ω on/off
S1 VIDEO input: S terminal (4-pin)×1
Y; 1.0 Vp-p, 75Ω
C; 0.3 Vp-p (burst), 75Ω
Reference input: Analogue composite
BNC×2, loop-through, 75Ω on/off
Serial digital component input (option): Complies with ITU-R BT.656-3 standard, BNC×2, active through

(Video output connector)
Analogue component output: BNC×3 (Y, P_B, P_R)
Y; 1.0 Vp-p, 75Ω
P_B, P_R; 0.7 Vp-p, 75Ω (100% colour bar)
Analogue composite output: BNC×3
Video1/video2/video3 (superimpose on/off)
S1 VIDEO output: S terminal (4-pin)×1
Y; 1.0 Vp-p, 75Ω
C; 0.3 Vp-p (burst), 75Ω
Serial digital component output (option): Complies with ITU-R BT.656-3 standard, BNC×3

(Video output signals adjustment)
Video gain: ±3 dB
Chroma gain: ±3 dB
Chroma phase: ±30°
Black level: ±100 mV
Sync phase: ±15 µs
SC phase: ±180°

AUDIO

(Digital audio)
Sampling frequencies: 48 kHz (synchronized with video signal)
Quantizing: 16 bits
Frequency response: 20 Hz to 20 kHz (±1.0 dB) (at reference level)
Dynamic range: Better than 85 dB (1 kHz, emphasis OFF, "A" weighted)
Distortion: Less than 0.1% (1 kHz, emphasis OFF, standard level)
Crosstalk: Less than –80 dB (1 kHz, between 2 channels)
Wow & flutter: Below measurable limits
Headroom: 18 dB
De-emphasis: T1=50 µs/T2=15 µs (on/off automatic)

(Audio input connector)
Analogue input (CH1/CH2): XLR×2, 600Ω/high impedance selectable, +4/0/–20/–60 dBu
Digital input (CH1/CH2): BNC×1, AES/EBU format
Serial digital input (option): Complies with ITU-R BT.656-3 standard (BNC, 75Ω)

(Audio output connector)
Analogue output (CH1/CH2): XLR×2, low impedance, +4/0/–20 dBu
Digital output (CH1/CH2): BNC×1, AES/EBU format
Serial digital output (option): Complies with ITU-R BT.656-3 standard (BNC, 75Ω)
Monitor output: Phono×1, 600Ω, –8 dBV
Headphones: Variable level, 6.35 mm phone, 8Ω

Other input/output connector

Time code input: BNC×1, 0.5 Vp-p to 8 Vp-p, 10 kΩ
Time code output: BNC×1, 2.0 Vp-p ±0.5 Vp-p, low impedance
RS-422A input/output: D-sub 9-pin, RS-422A interface
RS-232C: D-sub 25-pin, RS-232C interface
Encoder remote: D-sub 15-pin
Digital video interface input/output (option): Compliant with IEEE1394-1995 standard, 6 pins × 1

Weight and dimensions when shown are approximately.
Specifications are subject to change without notice.

AJ-YA455P

Specifications

Video input:
BNC ×2, active through
Video output:
BNC ×3
Weight:
0.21 lb. (94 g) (board),
0.2 lb. (90 g) (connector board)
Dimensions (W×H):
5″×5-1/2″ (127×140 mm) (board),
1-5/8″×2-3/4″ (42×71 mm) (connector board)

AJ-YAD455P

Specifications

■ **Digital video interface board**
Dimensions (W×H×D):
5-11/16″×5-9/16″×9/16″ (143×140×13 mm)
Weight:
0.246 lb (112 g)
■ **Input/output facility**
Connector:
6-pin type
Transfer rate:
100 Mbps
Transfer data:
Compliant with IEC-61883/FDS (Part-1, 2)
Control commands:
Compliant with AV/C command set

Accessories

Connector board (×1)
Connecting cable (×1)

SAFETY PRECAUTIONS

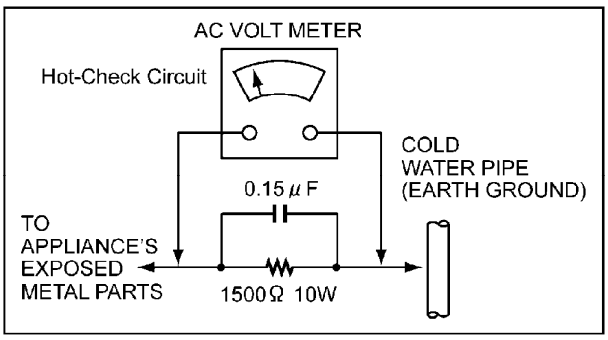
GENERAL GUIDELINES

1. **When servicing, observe the original lead dress. If a short / circuit is found, replace all parts which have been over-heated or damaged by the short circuit.**
2. **After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.**
3. **After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.**

LEAKAGE CURRENT COLD CHECK

1. **Unplug the AC cord and connect a jumper between the two prongs on the plug.**
2. **Measure the resistance value, with an ohm meter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. The resistance value must be more than 5M Ω .**

Figure1



LEAKAGE CURRENT HOT CHECK (See Figure 1)

1. **Plug the AC cord directly into the AC outlet. / Do not use an isolation transformer for this check.**
2. **Connect a 1.5k Ω , 10W resistor, in parallel with a 0.15 μ F capacitor, between each exposed metallic part on the set an a good earth ground such as a water pipe, as shown in Figure1.**
3. **Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.**
4. **Check each exposed metallic part, and measure the voltage at each point.**
5. **Reverses the AC plug in the AC outlet repeat each of the above measurements.**
6. **The potential at any point should not exceed 0.15 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 0.1 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and checked before it is returned to the customer.**

ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically sensitive (ED) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. **Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. / Alternatively,**

obtain and wear a commercially available discharging wrist trap device, which should be removed for potential shock reasons prior to applying power to the unit under test.

2. **After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.**
3. **Use only a grounded tip soldering iron to solder or unsolder ES devices.**
4. **Use only an anti-static solder removal device classified as "anti-static" can generate electrical charges sufficient to damage ES devices.**
5. **Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.**
6. **Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. / (most replacement ES devices are package with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).**
7. **Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed. / CAUTION : Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.**
8. **Minimize bodily motions when handling unpacked replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).**

X-RADIATION

WARNING

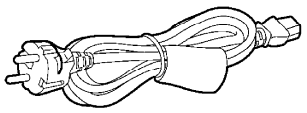
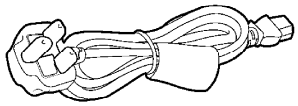
1. **The potential source of X-radiation in EVF sets is the High Voltage section and the picture tube.**
2. **When using a picture tube test jig for service, ensure that jig is capable of handling 10kV without causing x-radiation.**

Note :
It is important to use an accurate periodically calibrated high voltage meter.

3. **Measure the High Voltage. The meter (electric type) reading should indicate 2.5kV, 0.15kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure. To prevent an x-radiation possibility, it is essential to use the specified picture tube.**

Caution for AC Mains Lead

FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY.
This product is equipped with 2 types of AC mains cable. One is for continental Europe, etc. and the other one is only for U.K.
Appropriate mains cable must be used in each local area, since the other type of mains cable is not suitable.

FOR CONTINENTAL EUROPE, ETC. Not to be used in the U.K.	**FOR U.K. ONLY** If the plug supplied is not suitable for your socket outlet, it should be cut off and appropriate one fitted.
	

FOR U.K. ONLY

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 13 amp fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 13 amps and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark ⓐ or the BSI mark ⓚ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local Panasonic Dealer.

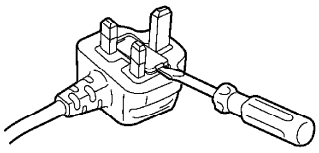
IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.
WARNING: THIS APPLIANCE MUST BE EARTHED.
IMPORTANT: The wires in this mains lead are coloured in accordance with the following code:

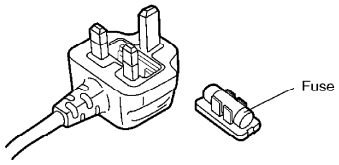
Green-and-Yellow:	Earth
Blue:	Neutral
Brown:	Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
- The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked with the letter E or by the Earth symbol ⏚ or coloured GREEN or GREEN-AND-YELLOW.
- The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.
- The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

How to replace the fuse
1. Open the fuse compartment with a screwdriver.



2. Replace the fuse.



IMPORTANT

"Unauthorized recording of copyrighted television programmes, video tapes and other materials may infringe the right of copyright owners and be contrary to copyright laws."

THIS APPARATUS MUST BE EARTHED
To ensure safe operation the three-pin plug must be inserted only into a standard three-pin power point which is effectively earthed through the normal house-hold wiring.
Extension cords used with the equipment must be three-core and be correctly wired to provide connection to earth. Wrongly wired extension cords are a major cause of fatalities.
The fact that the equipment operates satisfactorily does not imply that the power point is earthed and that the installation is completely safe. For your safety, if in any doubt about the effective earthing of the power point, consult a qualified electrician.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, REFER MOUNTING OF THE OPTIONAL BOARD TO QUALIFIED SERVICE PERSONNEL

the power point, consult a qualified electrician.

DO NOT REMOVE PANEL COVER BY UNSCREWING
To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside. And do not insert fingers or any other objects into the video cassette holder.

WARNING:
TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, KEEP THIS EQUIPMENT AWAY FROM ALL LIQUIDS-USE AND STORE ONLY IN LOCATIONS WHICH ARE NOT EXPOSED TO THE RISK OF DRIPPING OR SPLASHING LIQUIDS, AND DO NOT PLACE ANY LIQUID CONTAINERS ON TOP OF THE EQUIPMENT.

SERVICE PERSONNEL.

CAUTION:
Do not install or place this unit in a bookcase, built-in cabinet or another confined space in order to maintain adequate ventilation. Ensure that curtains and any other materials do not obstruct the ventilation to prevent risk of electric shock or fire hazard due to overheating.

CAUTION:
TO REDUCE THE RISK OF FIRE OF SHOCK HAZARD, REFER CHANGE OF SWITCH SETTING INSIDE THE UNIT TO AUTHORIZED SERVICE PERSONNEL.

CAUTION:
Even when POWER switch is in the Off position, a small current flows the filter circuit.

▭ is the safety information.

Operating precaution
Operation near any appliance which generates strong magnetic fields may give rise to noise in the video and audio signals. If this should be the case, deal with the situation by, for instance, moving the source of the magnetic fields away from the unit before operation.

1. Service Information

2. Disassembly Procedures

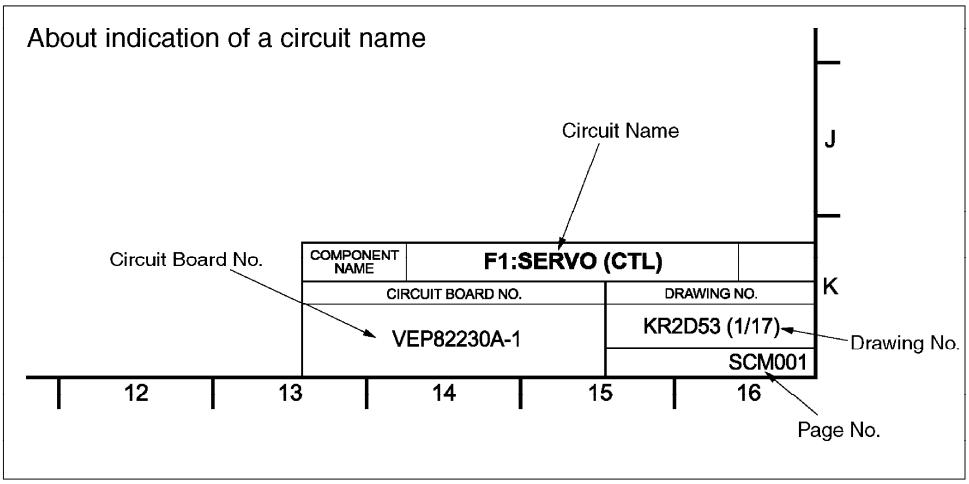
3. Electrical Adjustment

4. Block Diagrams

Note for printing

"Page Size" is originally set to "A3" in the PDF file for the Block Diagrams.
To print then in A4-Size, change print setting in Acrobat reader as follows. / ● Paper Size = A4 / ● Printer as image = Check the box (ON)

5. Schematic Diagrams



NOTE
BE SURE TO MAKE YOUR ORDERS OF REPLACEMENT PARTS ACCORDING TO PARTS LIST.

CAUTION
THE ▭ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT. / PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AN SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. / WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

5.1. F1:AUDIO (VEP84374A)

5.2. F2:V OUT (VEP83557B)

5.3. F3A:SDI(AJ-YA455P) OPTION (VEP83558A)

5.4. F4:D PROC (VEP83554B)

5.5. CSP SUB (VEP83555A)

5.6. F5:V IN (VEP83553B)

5.7. F6:SYSCON (VEP86314B)

5.8. F7:SERVO (VEP82238B)

5.9. RF CUE (VEP85197A)

5.10. F8:RF EQ (VEP85196A)

5.11. MOTHER (VEP80C14A)

5.12. MECHA IF (VEP82239A)

5.13. MECHA IF2 (VEP82240A)

5.14. POWER1 (VEP81221B)

5.15. POWER2 (VEP81222A)

5.16. AV JACK (VEP80C13A)

5.17. DV uCOM (VEP83560A)

5.18. FRONT (VEP86315A)

5.19. HP (VEP80C15A)

5.20. EJECT (VEP80C16A)

5.21. DIF JACK (VEP80C21A)

5.22. F3B:DIF (AJ-YAD455P) OPTION (VEP83559A)

6. Circuit Board Diagrams

NOTE
BE SURE TO MAKE YOUR ORDERS OF REPLACEMENT PARTS ACCORDING TO PARTS LIST.

CAUTION
THE ⬚ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT. / PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AN SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. / WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

6.1. F1:AUDIO P.C.BOARD (VEP84374A)

6.2. F2:V OUT P.C.BOARD (VEP83557B)

6.3. F3A:SDI P.C.BOARD (VEP83558A) (AJ-YA455P) OPTION

6.4. F4:D PROC P.C.BOARD (VEP83554B)

6.5. CSP SUB P.C.BOARD (VEP83555A)

6.6. F5:V IN P.C.BOARD (VEP83553B)

6.7. F6:SYSCON P.C.BOARD (VEP86314B)

6.8. F7:SERVO P.C.BOARD (VEP82238B)

6.9. RF CUE P.C.BOARD (VEP85197A)

6.10. F8:RF EQ P.C.BOARD (VEP85196A)

6.11. MOTHER P.C.BOARD (VEP80C14A)

6.12. MECHA IF P.C.BOARD (VEP82239A)

6.13. MECHA IF2 P.C.BOARD (VEP82240A)

6.14. POWER1 P.C.BOARD (VEP81221B)

6.15. AV JACK P.C.BOARD (VEP80C13A)

6.16. FRONT P.C.BOARD (VEP86315A)

6.17. DV uCOM P.C.BOARD (VEP83560A) / HP P.C.BOARD (VEP80C15A)

6.18. F3B:DIF P.C.BOARD (VEP83559A) / DIF JACK P.C.BOARD (VEP80C21A) / (AJ-YAD455P) OPTION

7. Mechanical Replacement Parts List & Exploded Views

NOTE:

1. **Be sure to make your orders of replacement parts according to this list.**
2. **Unless otherwise specified, all resistors are in OHMS, K=1,000 OHMS, all capacitors are in MICROFARADS (μ F), P= μ μ F.**
3. **The P.C. Board untils marked with " ■ " shown below the main assembled parts.**
4. **The parts marked with Ⓔ on the exploded view show the electric parts.**
5. **IMPORTANT SAFETY NOTICE**
   Components identified with the mark ⚠ have the special characteristics for safety. When replacin any of these components, use only the same type.
6. **The marking (RTL) indicates the retention time is limited for this item. / After the diacontinuation of tl assembly in production, it will no longer be available.**
7. **"(M)" in Remark column indicates needed in the periodical maintenance.**

8. Electrical Replacement Parts List

NOTE:

1. **Be sure to make your orders of replacement parts according to this list.**
2. **Unless otherwise specified, all resistors are in OHMS, K=1,000 OHMS, all capacitors are in MICROFARADS (μ F), P= μ μ F.**
3. **The P.C. Board untils marked with " ■ " shown below the main assembled parts.**
4. **The parts marked with Ⓔ on the exploded view show the electric parts.**
5. **IMPORTANT SAFETY NOTICE**
   Components identified with the mark ⚠ have the special characteristics for safety. When replacin any of these components, use only the same type.
6. **The marking (RTL) indicates the retention time is limited for this item. / After the diacontinuation of tl assembly in production, it will no longer be available.**

NOTE:

A list of parts is stored in data form in the CD-ROM. It is located within the folder APPENDIX/PARTS. Please use as necessary.

9. PDF for Printing

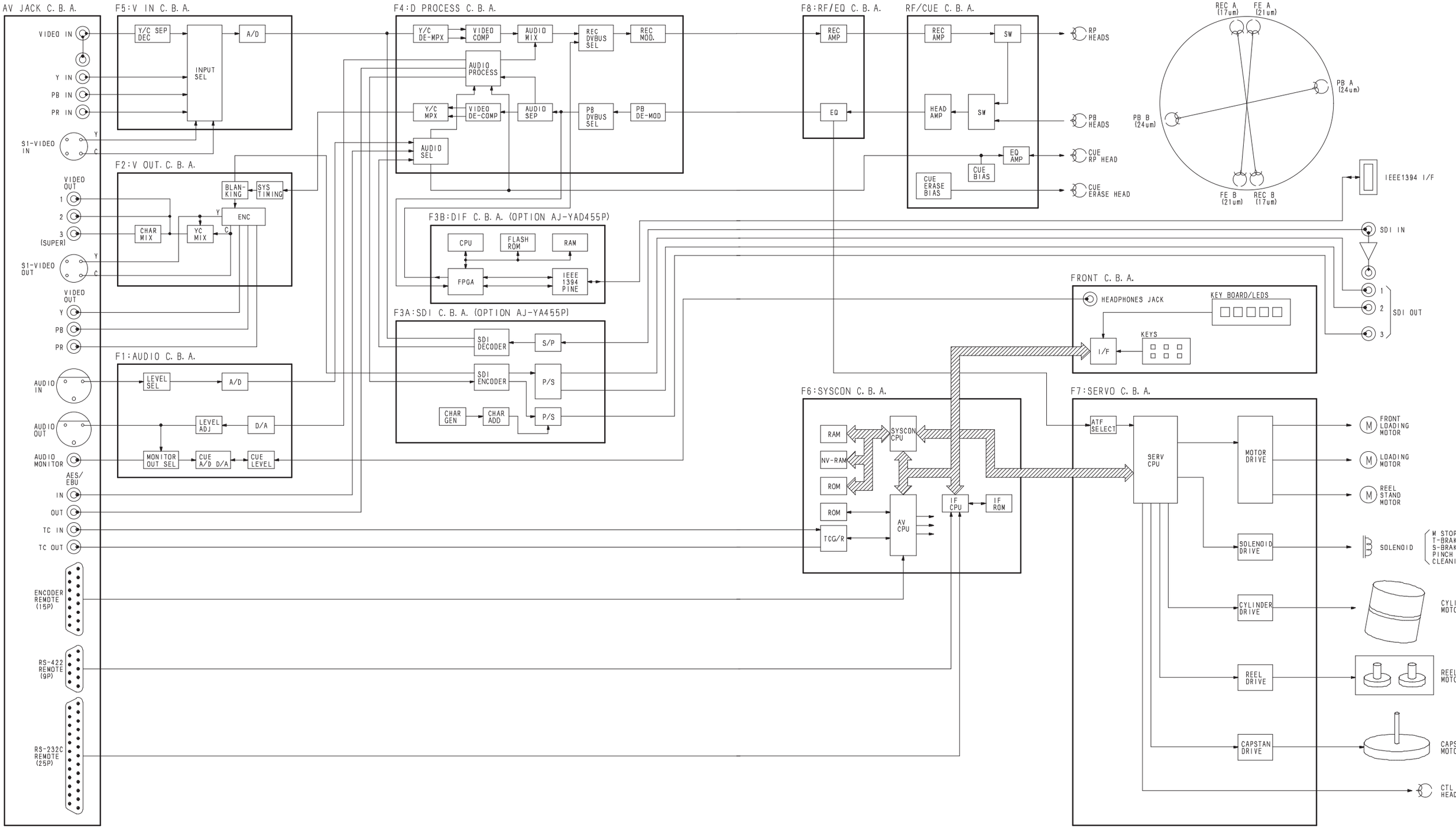
The PDF documents for printing consist of several files per section.Open every section (file) through a link (blue frame) on the cover.

● **Setting of Acrobat Reader**

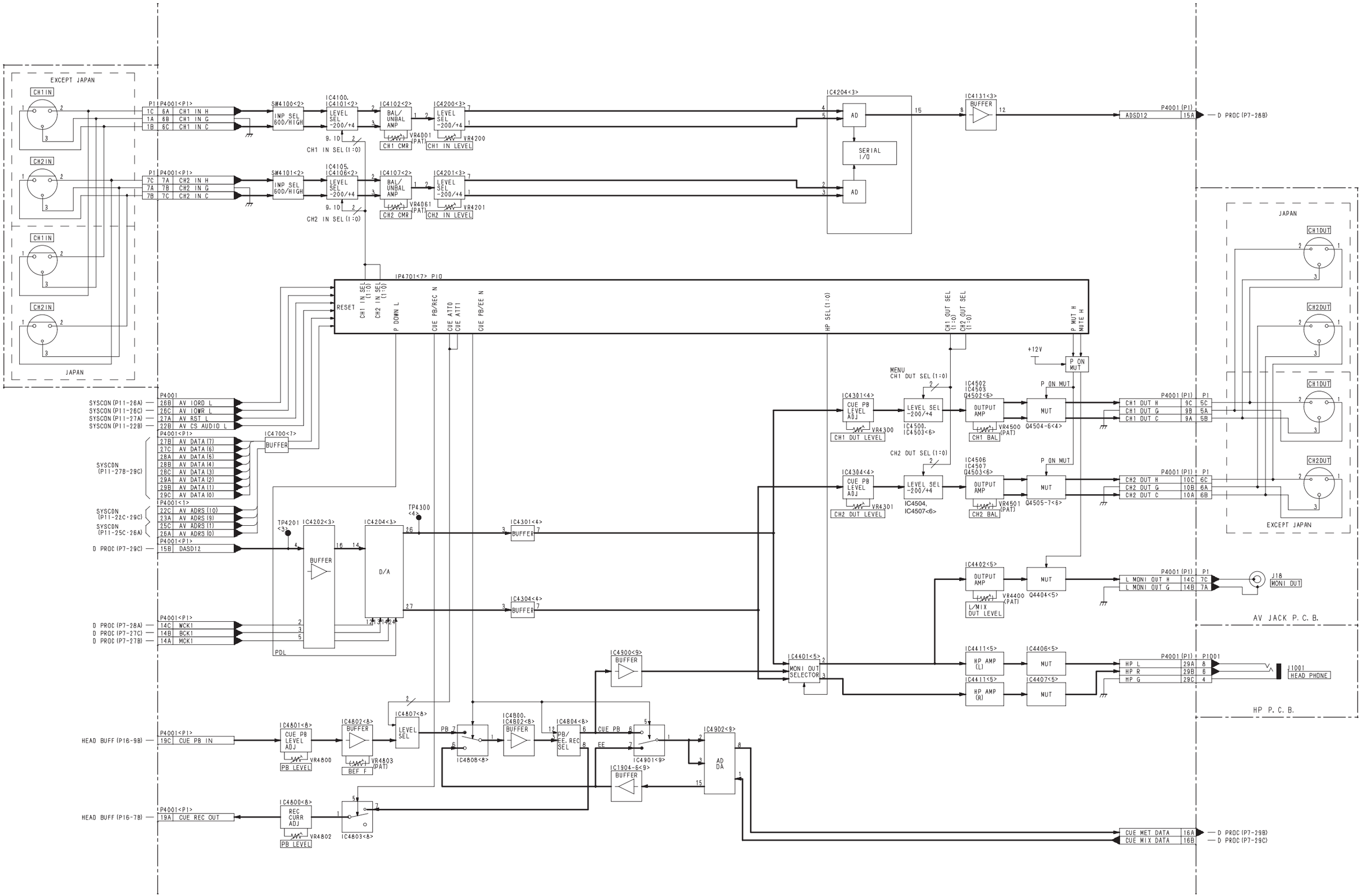
To view a link in a new window, follow the procedure below. When you operate the PDF documents for printing, you can open a PDF file of each section while displaying the cover page. This is convenient to view the PDF files in several sections.

<How to set> In the [File] menu, select [Preference] - [General...] and disable [Open Cross-Doc Links in Same Window].

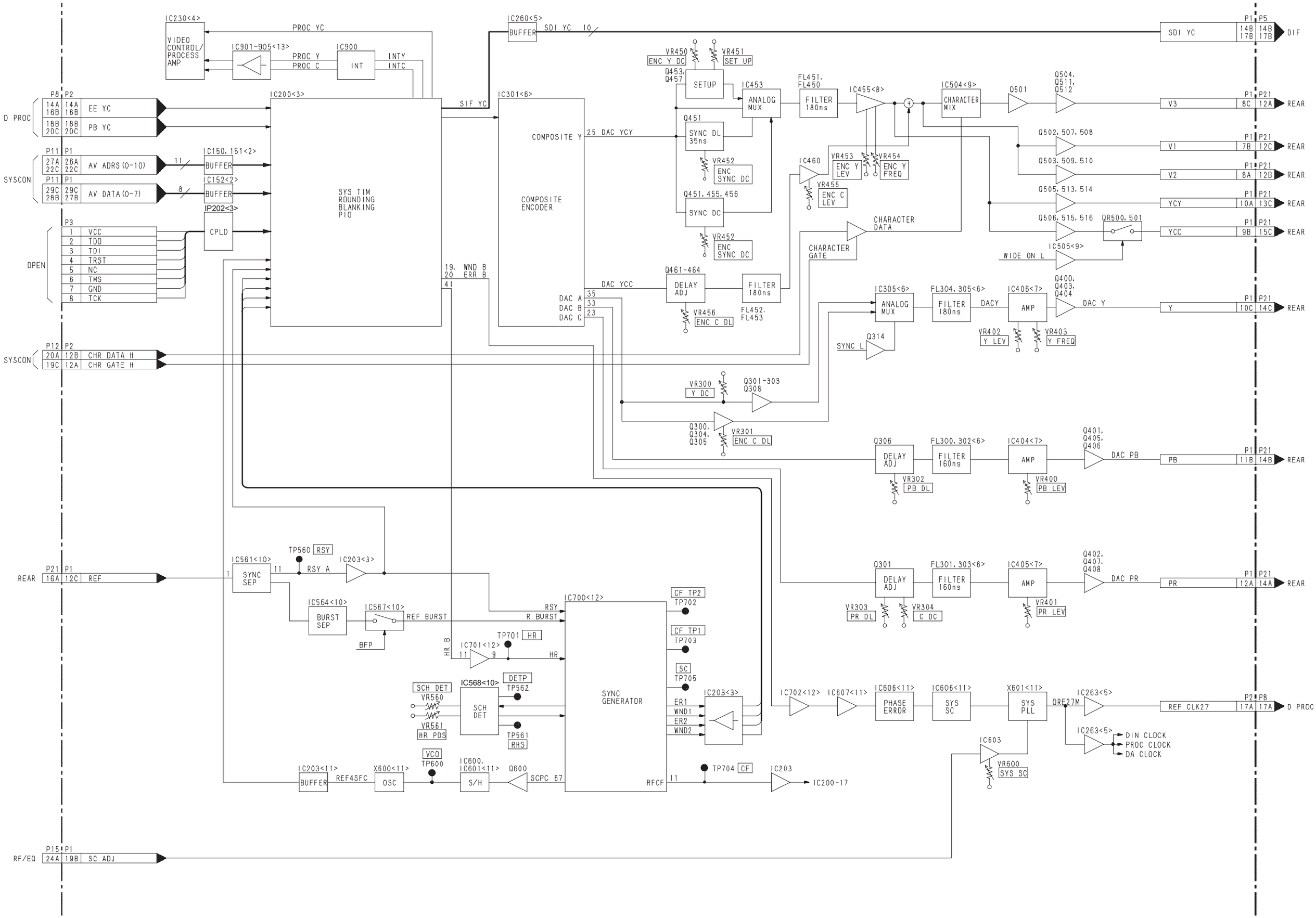
OVERALL BLOCK DIAGRAM



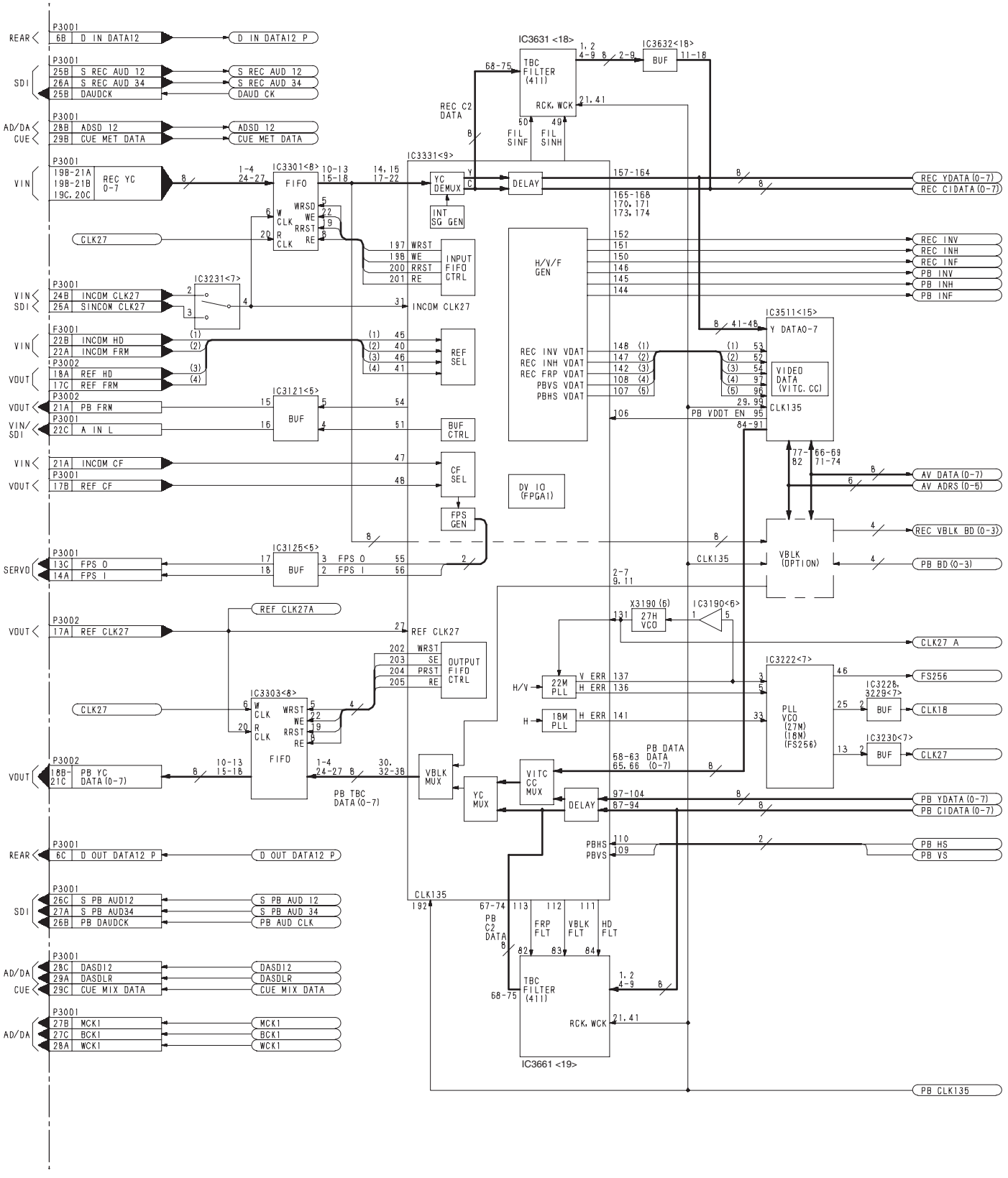
F1:AUDIO BLOCK DIAGRAM



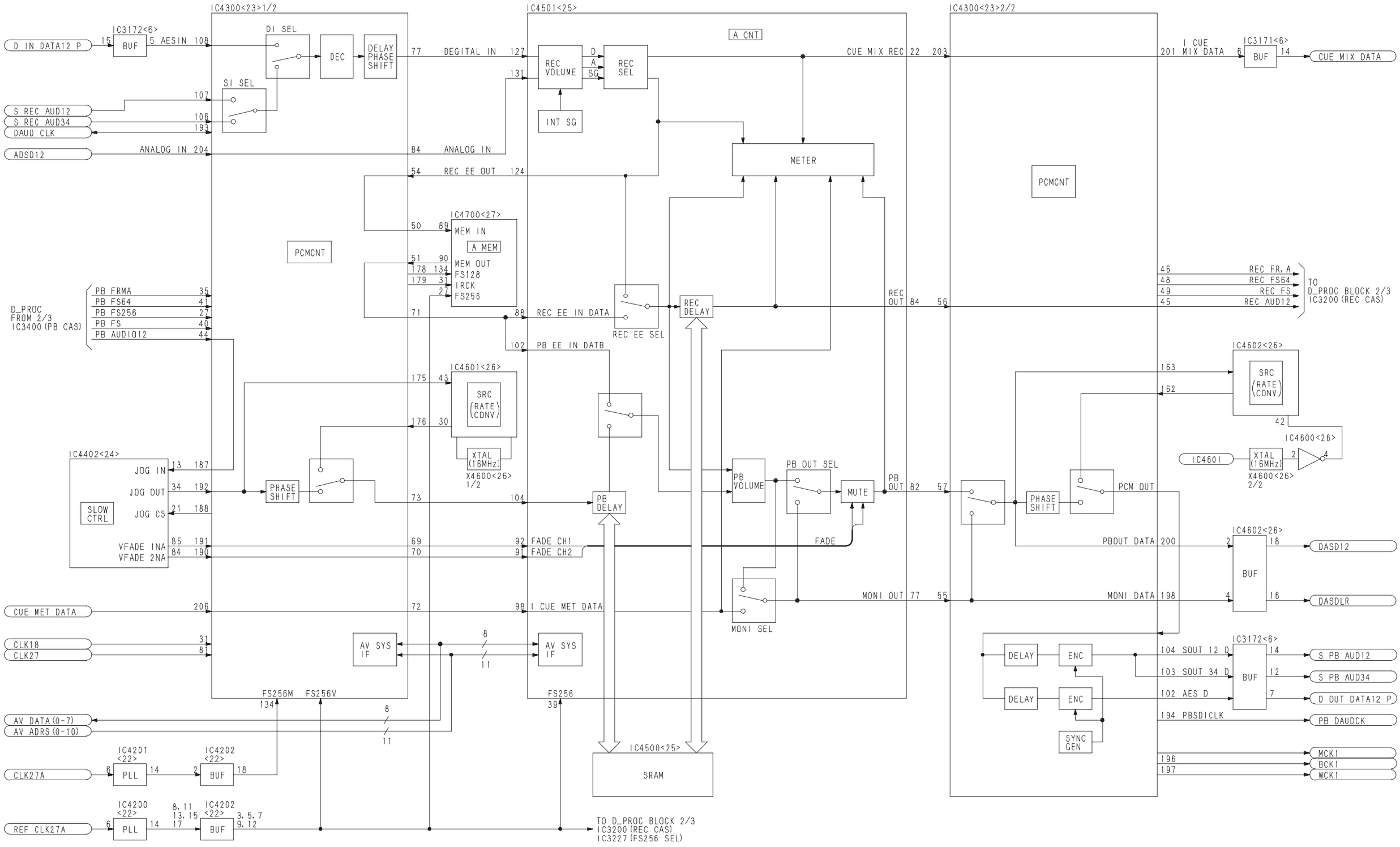
F2:VIDEO OUT BLOCK DIAGRAM



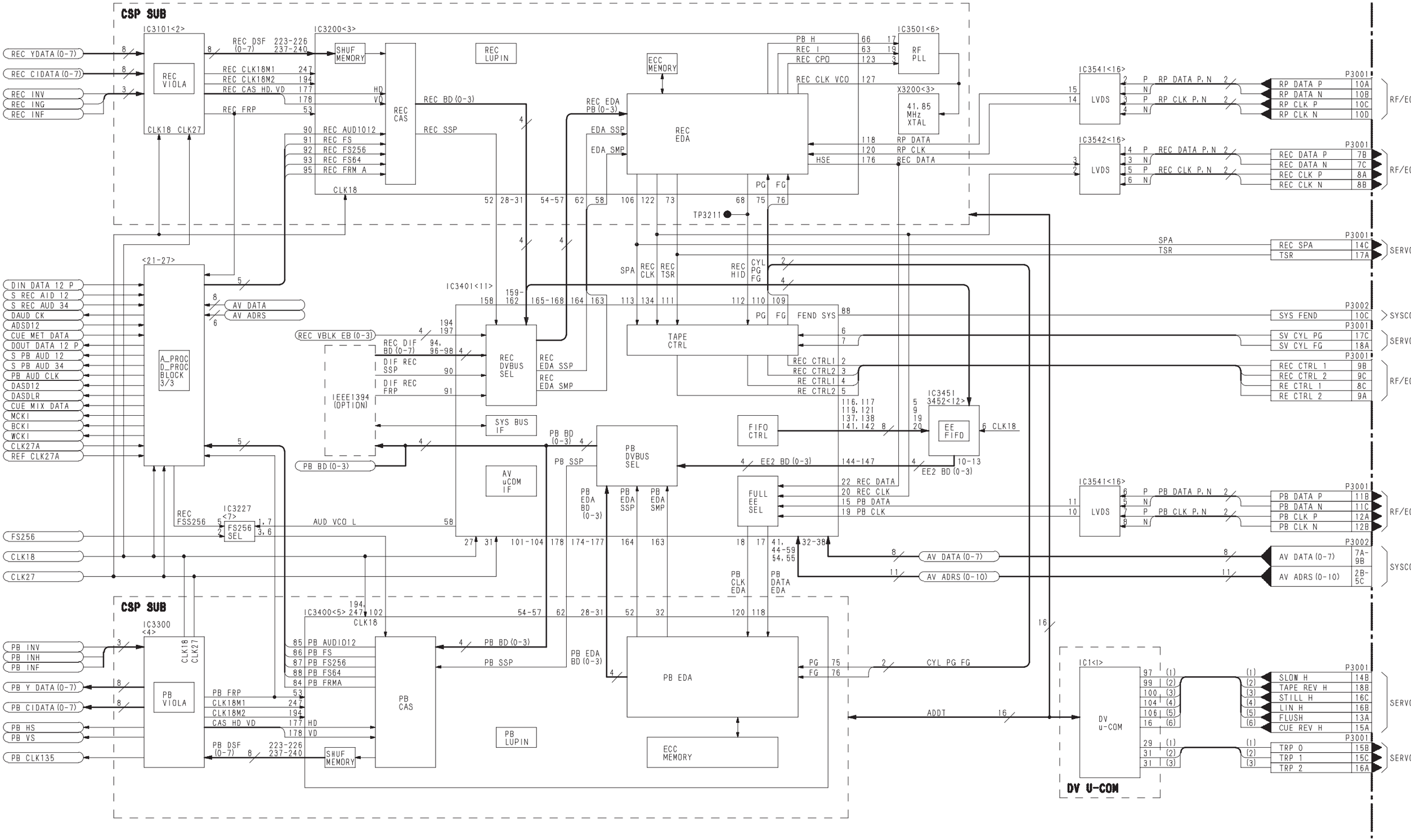
F4:D PROCESS BLOCK DIAGRAM (1/3)



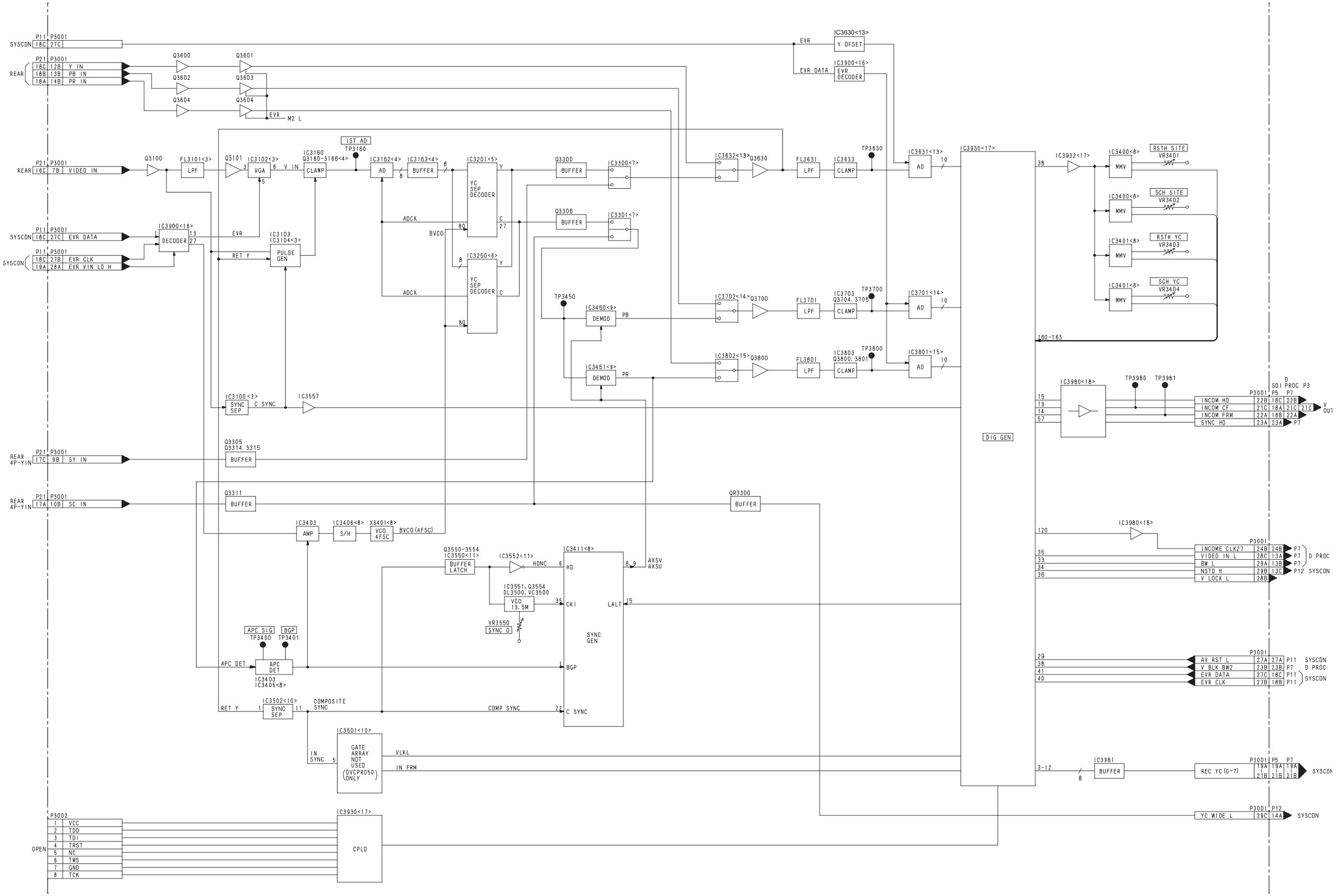
F4:D PROCESS BLOCK DIAGRAM (2/3)



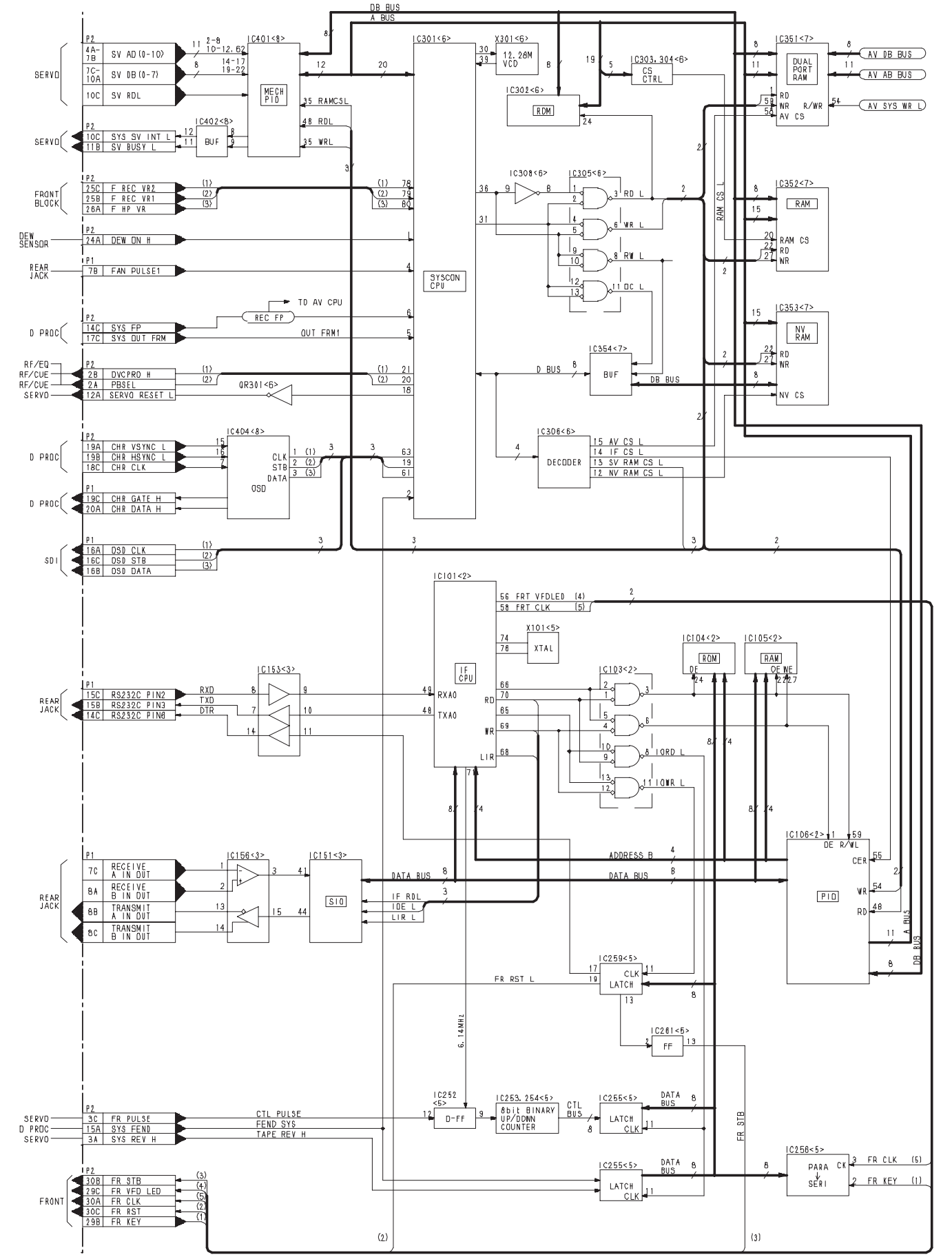
F4:D PROCESS BLOCK DIAGRAM PB BLOCK DIAGRAM(3/3)



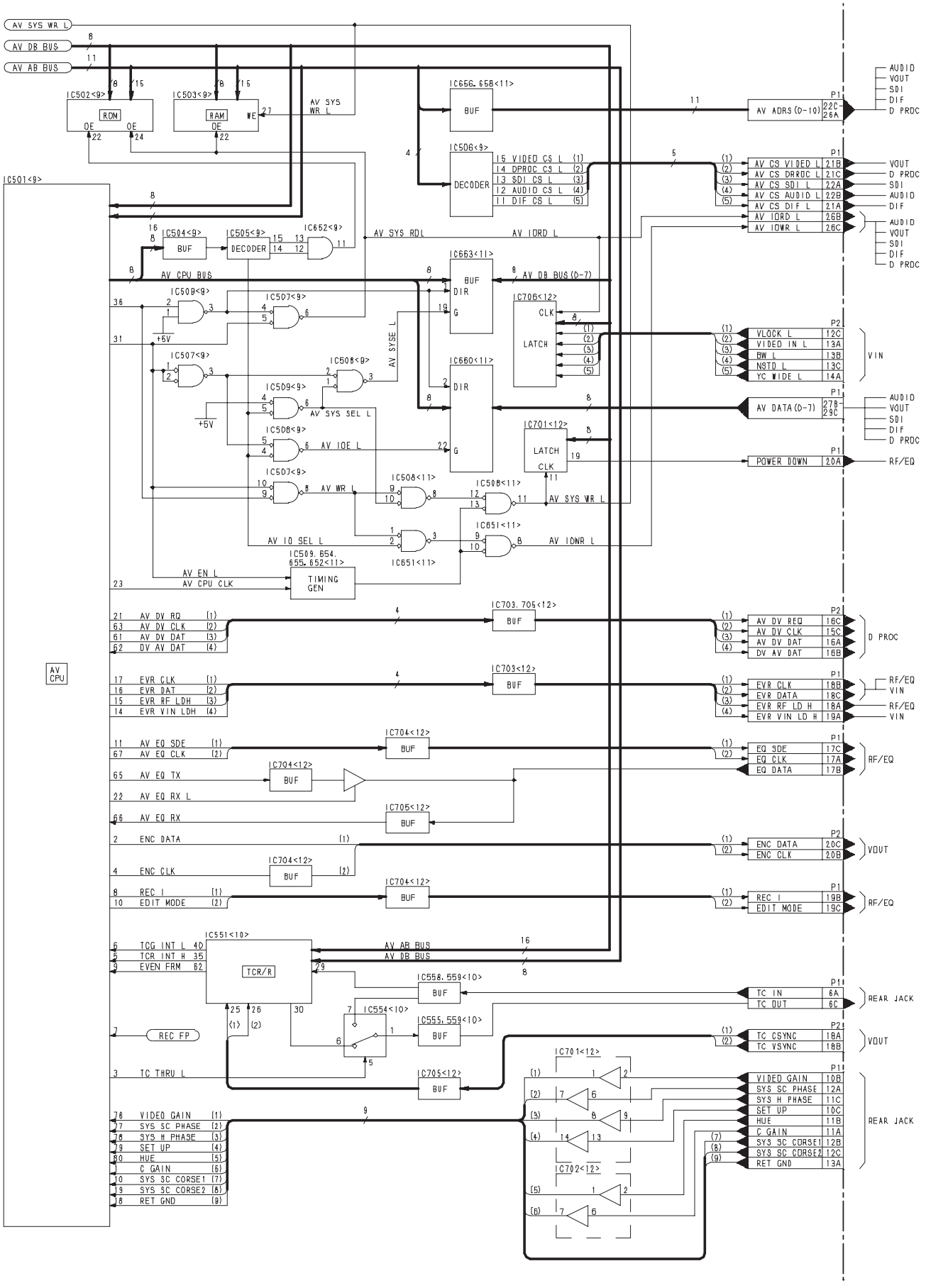
F5:VIDEO IN BLOCK DIAGRAM



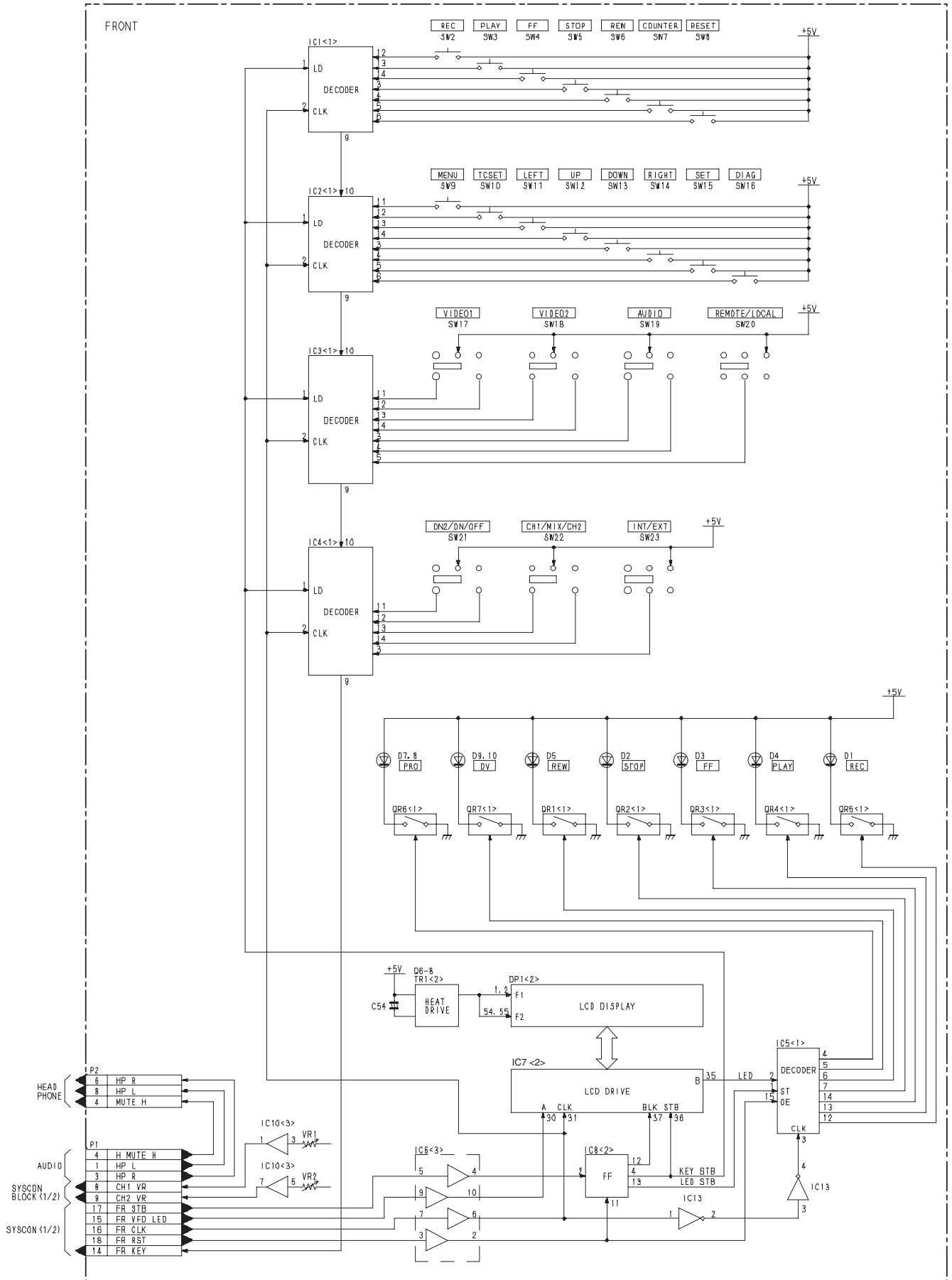
F6:SYSCON BLOCK DIAGRAM (1/2)



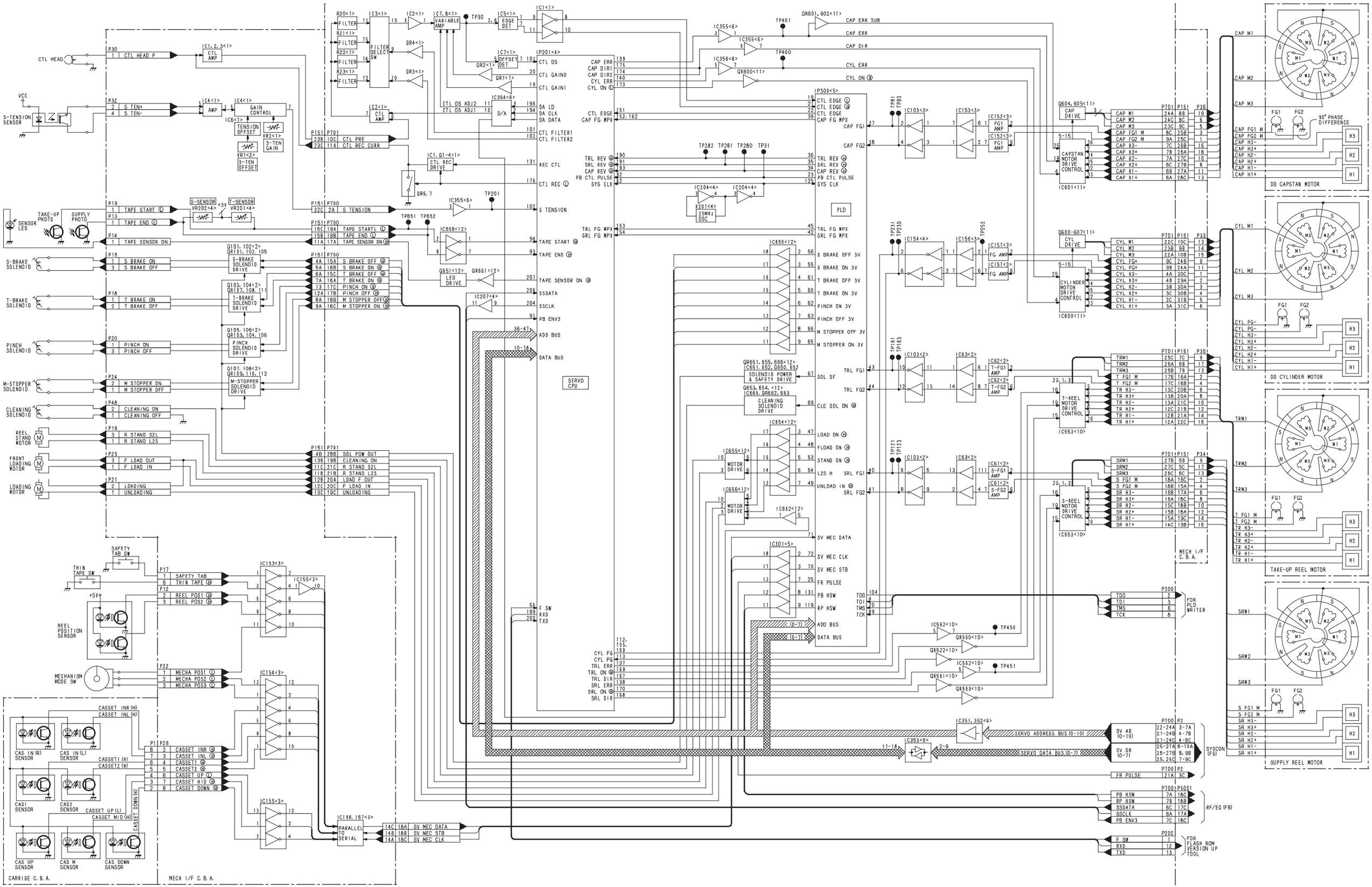
F6:SYSCON BLOCK DIAGRAM (2/2)



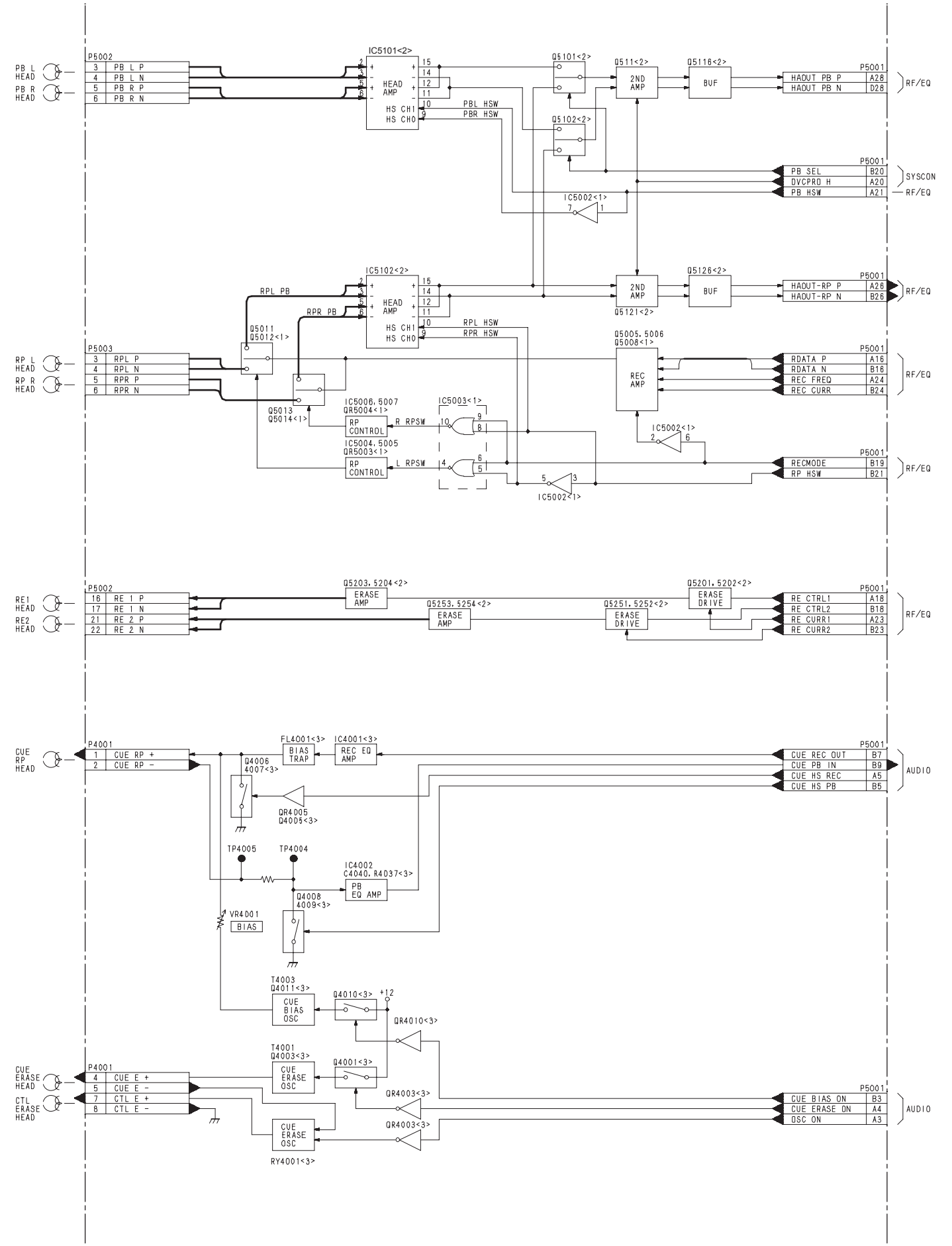
FRONT BLOCK DIAGRAM



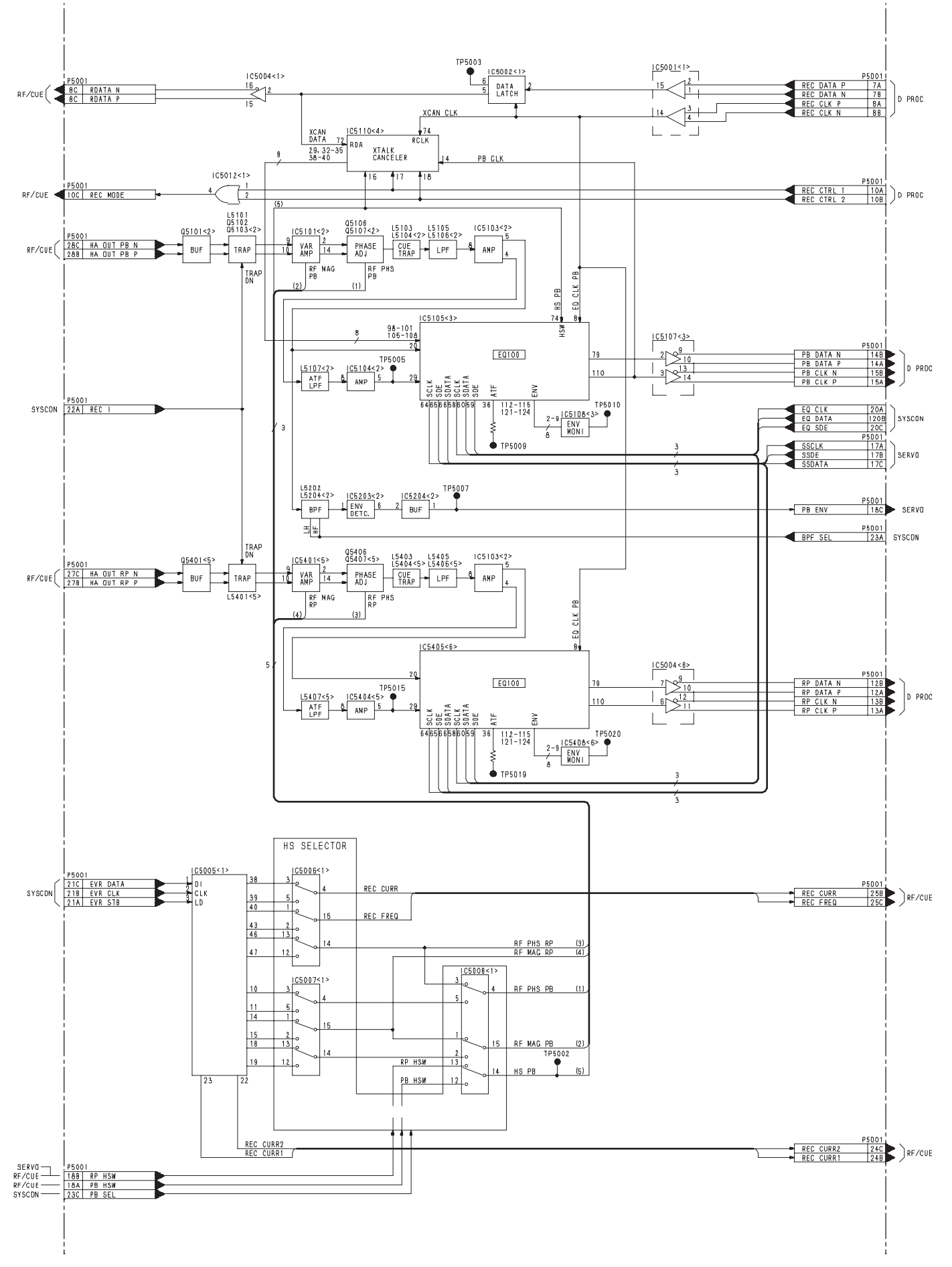
F7:SERVO BLOCK DIAGRAM



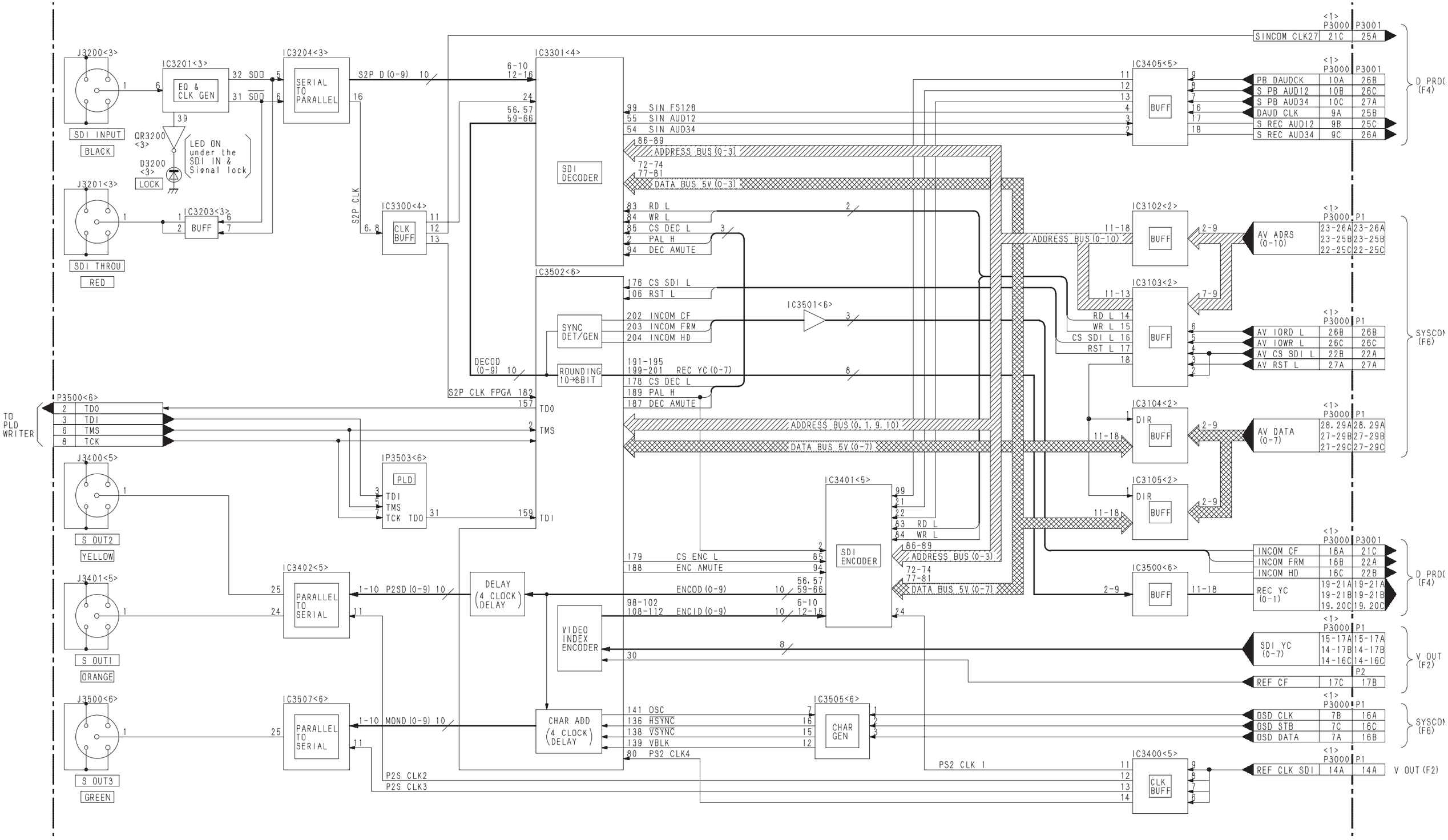
RF CUE BLOCK DIAGRAM



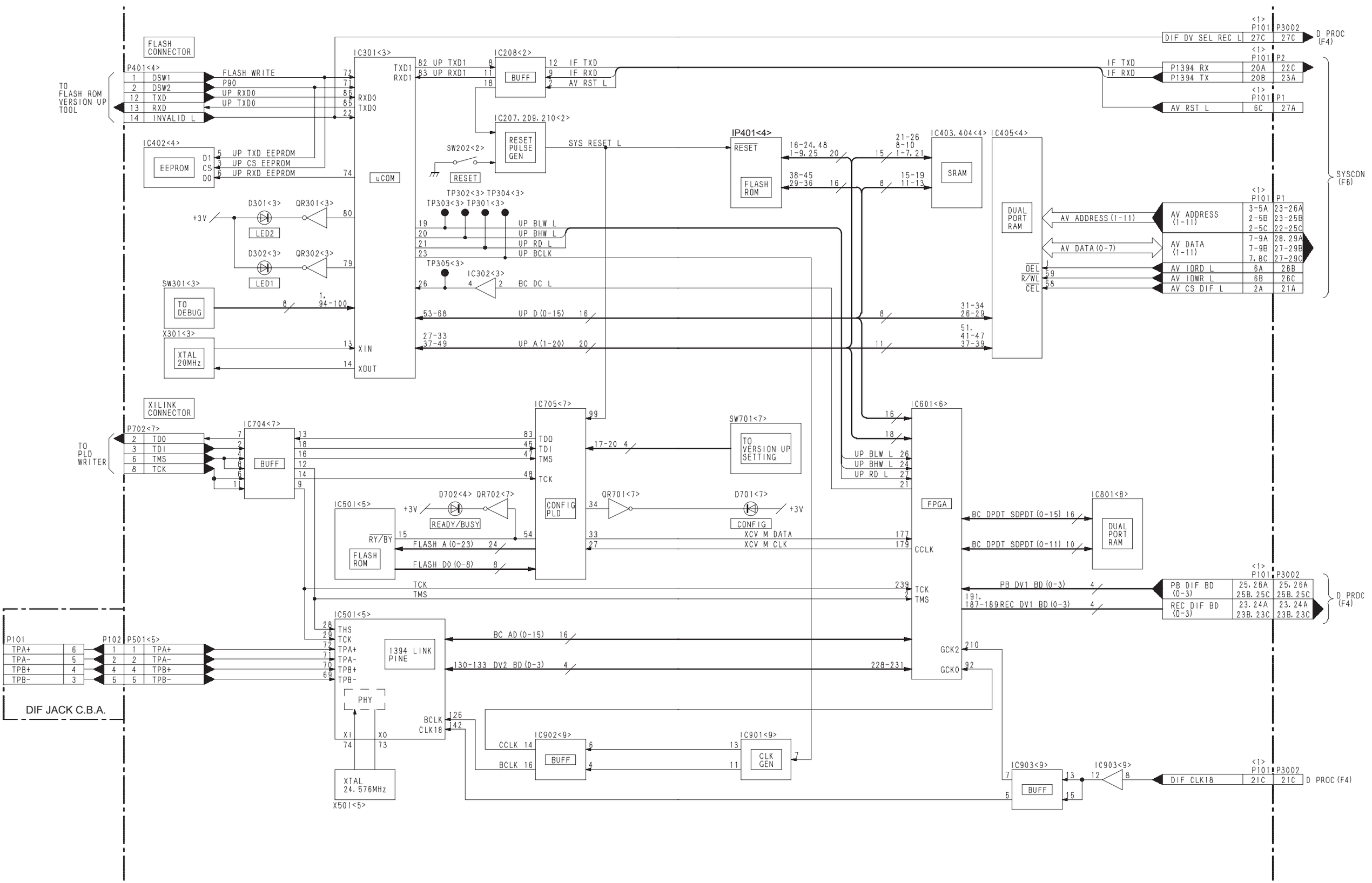
F8:RF/EQ BLOCK DIAGRAM



F3A:SDI BLOCK DIAGRAM (AJ-YA455P)



F3B: DIF BLOCK DIAGRAM (AJ-YAD455P)

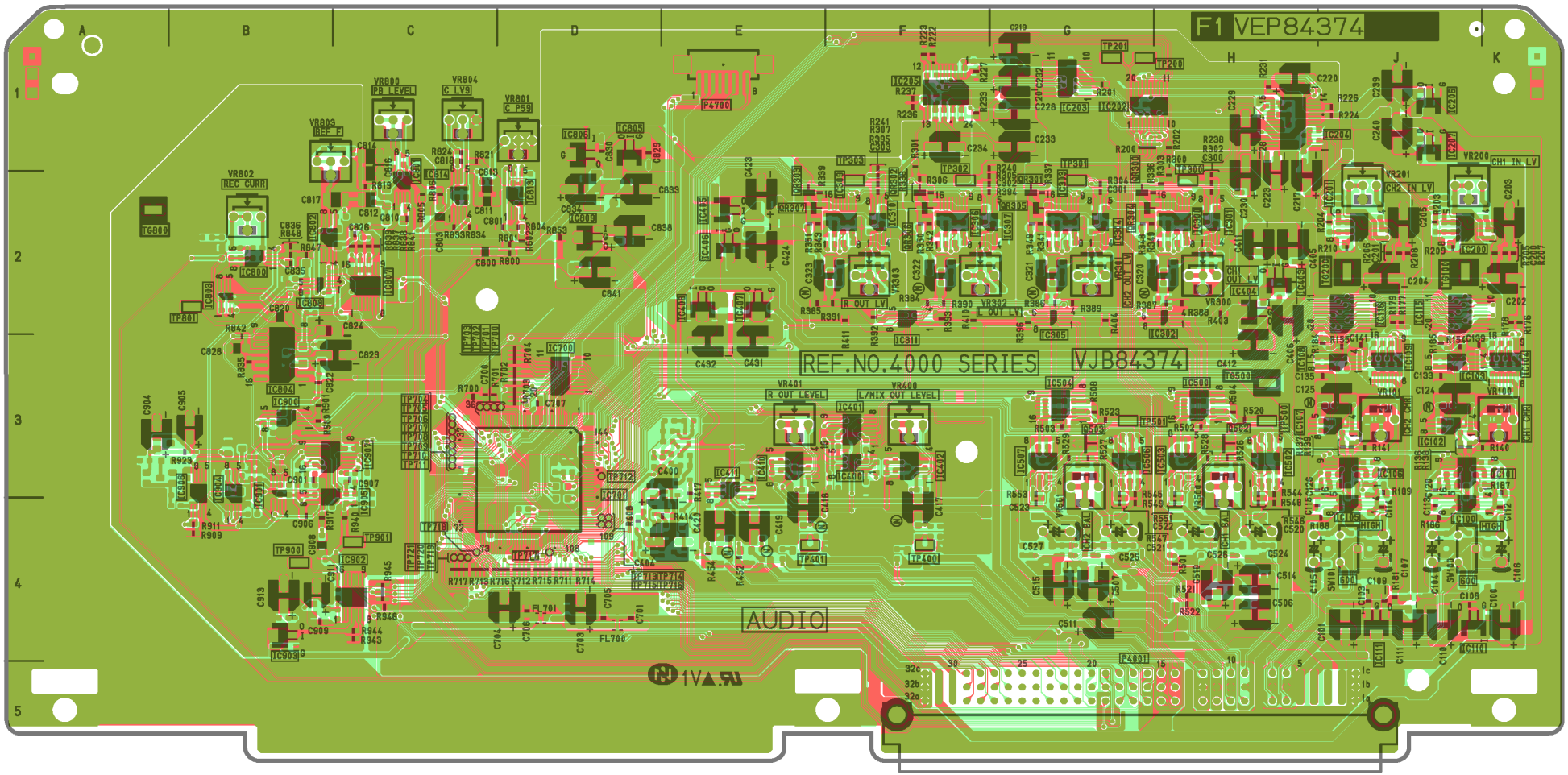


F1 AUDIO P.C. BOARD (VEP84374A)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC4100	J4	IC4110	J4	IC4206	J1	IC4307	F2	IC4404	H2	IC4503	H3	IC4803	B2	IC4900	B3	P4700	E1	QR4306	F2	TP4301	G2	TP4702	C3	TP4711	B3	TP4720	C4	VR4300	H2	VR4801	D1
IC4101	J3	IC4111	J4	IC4207	J1	IC4309	F2	IC4405	E2	IC4504	G3	IC4804	B3	IC4901	B3	Q4502	H3	QR4307	E2	TP4302	F2	TP4703	C3	TP4712	D3	TP4721	C4	VR4301	G2	VR4802	B2
IC4102	J3	IC4115	J2	IC4209	G1	IC4310	F2	IC4406	E2	IC4506	G3	IC4805	D1	IC4902	C4	Q4503	G3	TG4100	J2	TP4303	F2	TP4704	B3	TP4713	D4	TP4801	B2	VR4302	F2	VR4803	B1
IC4103	J3	IC4116	J2	IC4300	H2	IC4311	F2	IC4407	E2	IC4507	G3	IC4806	D1	IC4903	B4	QR4300	G2	TG4200	J2	TP4400	F4	TP4705	B3	TP4714	D4	TP4900	B4	VR4303	F2	VR4804	C1
IC4104	K3	IC4200	J2	IC4301	H2	IC4394	G2	IC4408	E2	IC4700	D3	IC4807	C2	IC4904	B3	QR4301	G2	TG4500	H3	TP4401	E4	TP4706	B3	TP4715	D4	TP4901	B4	VR4400	F3		
IC4105	J4	IC4201	J2	IC4302	H2	IC4400	F3	IC4410	E3	IC4701	D3	IC4808	B2	IC4905	B3	QR4302	F2	TG4800	A2	TP4500	H3	TP4707	B3	TP4716	D4	VR4100	K3	VR4401	E3		
IC4106	J3	IC4202	G1	IC4303	G2	IC4401	F3	IC4411	E3	IC4800	B2	IC4809	D2	IC4906	B3	QR4303	E2	TP4200	G1	TP4501	G3	TP4708	B3	TP4717	D4	VR4101	J3	VR4500	H3		
IC4108	J3	IC4204	H1	IC4305	G2	IC4402	F3	IC4500	H3	IC4801	C2	IC4813	D2	IC4907	B3	QR4304	G2	TP4201	G1	TP4700	C3	TP4709	B3	TP4718	C4	VR4200	J2	VR4501	G3		
IC4109	J3	IC4205	F1	IC4306	F2	IC4403	H2	IC4502	H3	IC4802	B2	IC4814	C2	P4001	G4	QR4305	G2	TP4300	H2	TP4701	C3	TP4710	B3	TP4719	C4	VR4201	J2	VR4800	C1		

CBA-1



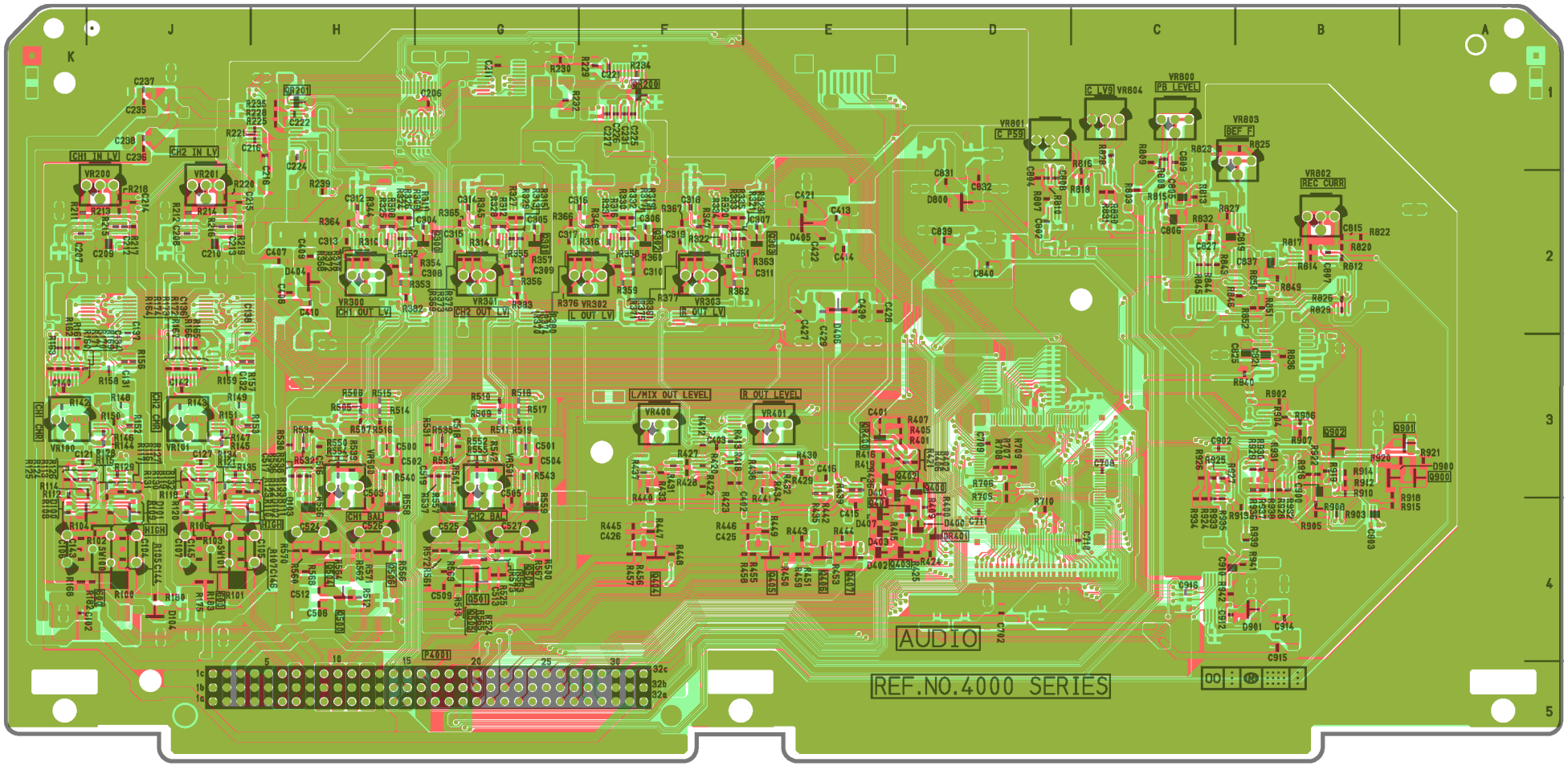
(COMPONENT SIDE)

F1 AUDIO P.C. BOARD (VEP84374A)

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
P4001	G5	Q4404	F4	Q4507	G4	VR4101	L3	VR4500	H3
Q4300	G2	Q4405	E4	Q4900	A3	VR4200	L2	VR4501	G3
Q4301	G2	Q4406	E4	Q4901	A3	VR4201	L2	VR4800	C1
Q4302	F2	Q4407	E4	Q4902	B3	VR4300	H2	VR4801	D1
Q4303	E2	Q4500	H4	QR4200	F1	VR4301	G2	VR4802	B2
Q4400	D3	Q4501	G4	QR4201	H1	VR4302	F2	VR4803	B1
Q4401	D4	Q4504	H4	QR4400	E3	VR4303	F2	VR4804	C1
Q4402	E3	Q4505	G4	QR4401	D4	VR4400	F3		
Q4403	E4	Q4506	H4	VR4100	K3	VR4401	E3		

CBA-2



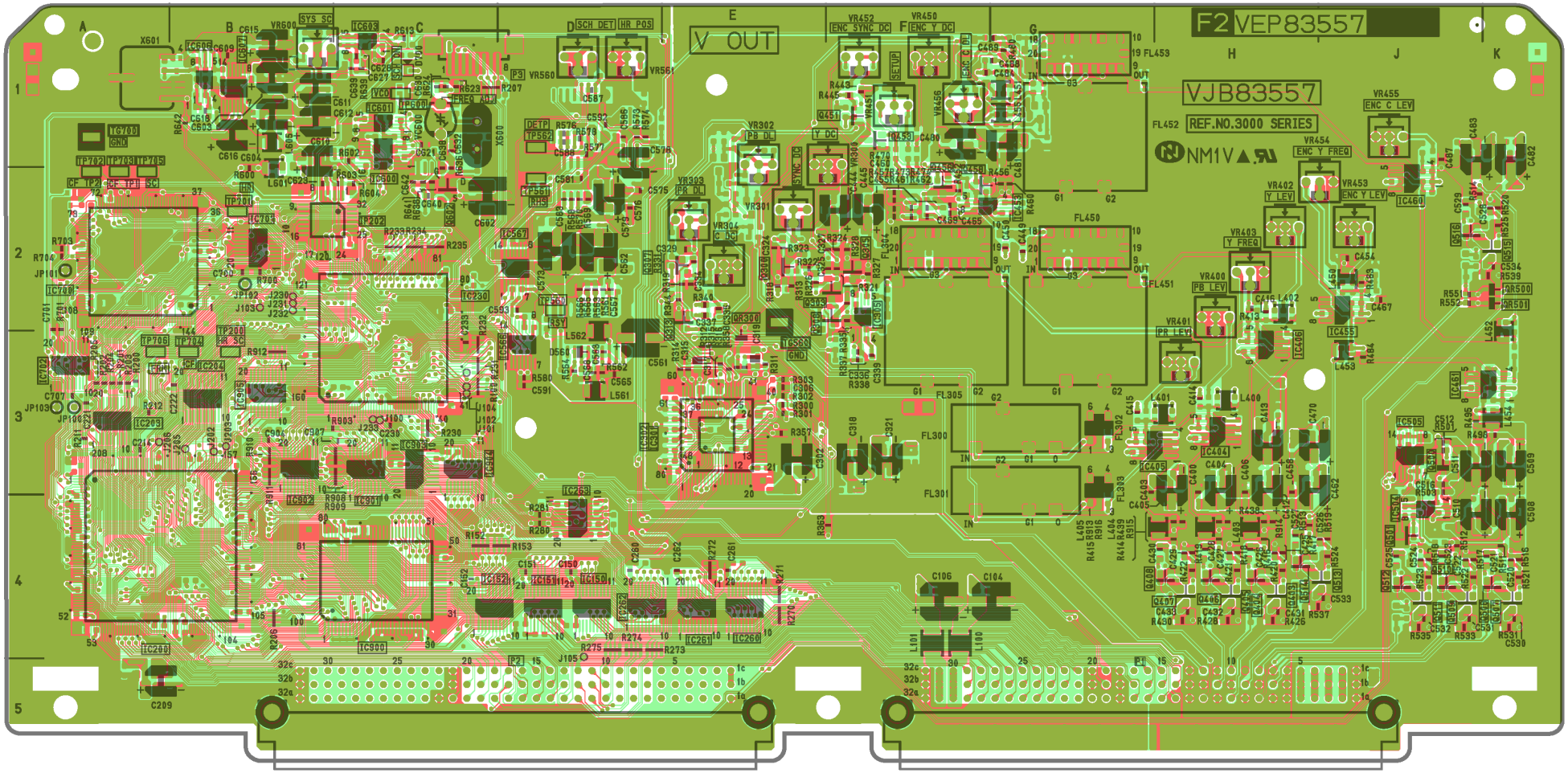
(FOIL SIDE)

F2 V OUT P.C. BOARD (VEP83557B)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3150	D4	IC3262	D4	IC3455	J2	IC3603	C1	IC3903	C3	Q3307	E2	Q3453	F1	Q3511	J4	TG3560	E2	TP3703	A2	VR3304	E2	VR3454	H2
IC3151	D4	IC3263	D4	IC3460	J2	IC3606	B1	IC3904	C3	Q3313	E2	Q3456	F2	Q3512	J4	TG3700	A1	TP3704	B3	VR3400	H2	VR3455	J1
IC3152	C4	IC3301	E3	IC3461	K3	IC3607	B1	IC3905	B3	Q3403	H4	Q3458	F2	Q3514	H4	TP3200	B3	TP3705	A2	VR3401	H3	VR3456	F1
IC3200	A4	IC3302	E3	IC3504	J4	IC3700	A2	IP3202	B2	Q3404	H4	Q3500	J3	Q3515	K2	TP3560	D2	TP3706	A3	VR3402	H2	VR3560	D1
IC3203	A3	IC3305	F2	IC3505	J3	IC3701	B2	P3001	H5	Q3405	H4	Q3500	J4	Q3516	J2	TP3561	D2	VC3600	C1	VR3403	H2	VR3561	D1
IC3204	B3	IC3404	H3	IC3556	D3	IC3702	A3	P3002	D5	Q3406	H4	Q3501	J4	Q3602	C2	TP3562	D1	VR3300	E1	VR3450	F1	VR3600	B1
IC3230	C2	IC3405	H3	IC3567	D2	IC3900	C4	P3003	C1	Q3407	H4	Q3507	K4	QR3300	E3	TP3600	C1	VR3301	E2	VR3451	F1		
IC3260	E4	IC3406	H3	IC3600	C2	IC3901	C3	Q3300	E2	Q3408	H4	Q3508	K4	QR3500	K2	TP3701	B2	VR3302	E1	VR3452	F1		
IC3261	E4	IC3453	F2	IC3601	C1	IC3902	B3	Q3305	F2	Q3451	F1	Q3509	J4	QR3501	K2	TP3702	A2	VR3303	E2	VR3453	J2		

CBA-3



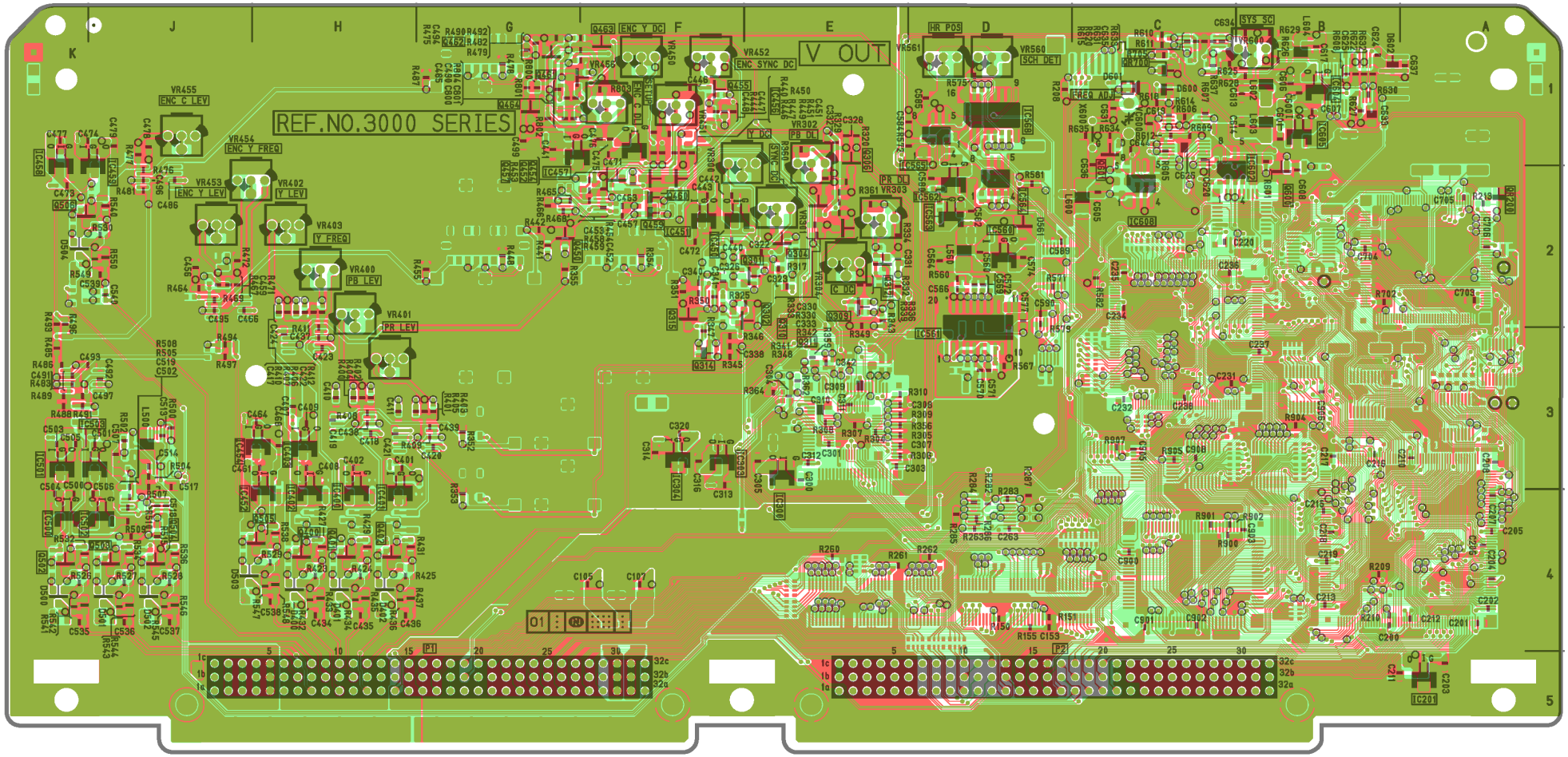
(COMPONENT SIDE)

F2 V OUT P.C. BOARD (VEP83557B)

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3201	A5	IC3451	F2	IC3502	J4	IC3602	B1	Q3309	E2	Q3450	G2	Q3463	F1	QR3200	A2	VR3401	H3	VR3456	F1
IC3300	E3	IC3452	H4	IC3503	J3	IC3605	B1	Q3310	E2	Q3452	F2	Q3464	G1	QR3700	C1	VR3402	H2	VR3550	D1
IC3303	F3	IC3454	H3	IC3560	D2	IC3608	C2	Q3311	E2	Q3454	F2	Q3502	K4	VC3600	C1	VR3403	H2	VR3551	D1
IC3304	F3	IC3456	F1	IC3561	D3	P3001	G5	Q3312	E2	Q3455	F1	Q3503	J4	VR3300	E1	VR3450	F1	VR3600	B1
IC3400	H4	IC3457	G1	IC3562	D2	P3002	D5	Q3314	F3	Q3457	F2	Q3504	J4	VR3301	E2	VR3451	F1		
IC3401	H4	IC3458	K1	IC3563	D2	Q3301	E2	Q3315	F2	Q3459	F2	Q3505	H4	VR3302	E1	VR3452	F1		
IC3402	H4	IC3459	J2	IC3564	D2	Q3302	F2	Q3400	H4	Q3460	F2	Q3506	K2	VR3303	E2	VR3453	J2		
IC3403	H3	IC3500	K4	IC3565	D1	Q3304	E2	Q3401	H4	Q3461	G1	Q3600	B2	VR3304	E2	VR3454	H2		
IC3450	F2	IC3501	K3	IC3568	D1	Q3306	E1	Q3402	H4	Q3462	G1	Q3601	C1	VR3400	H2	VR3455	J1		

CBA-4

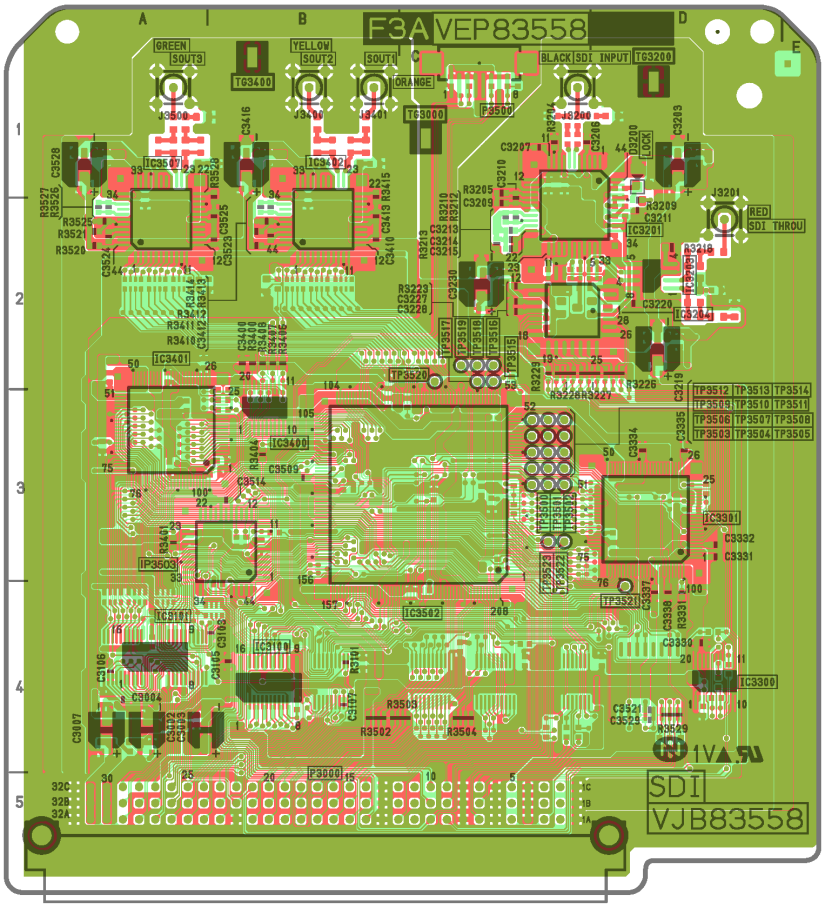


(FOIL SIDE)

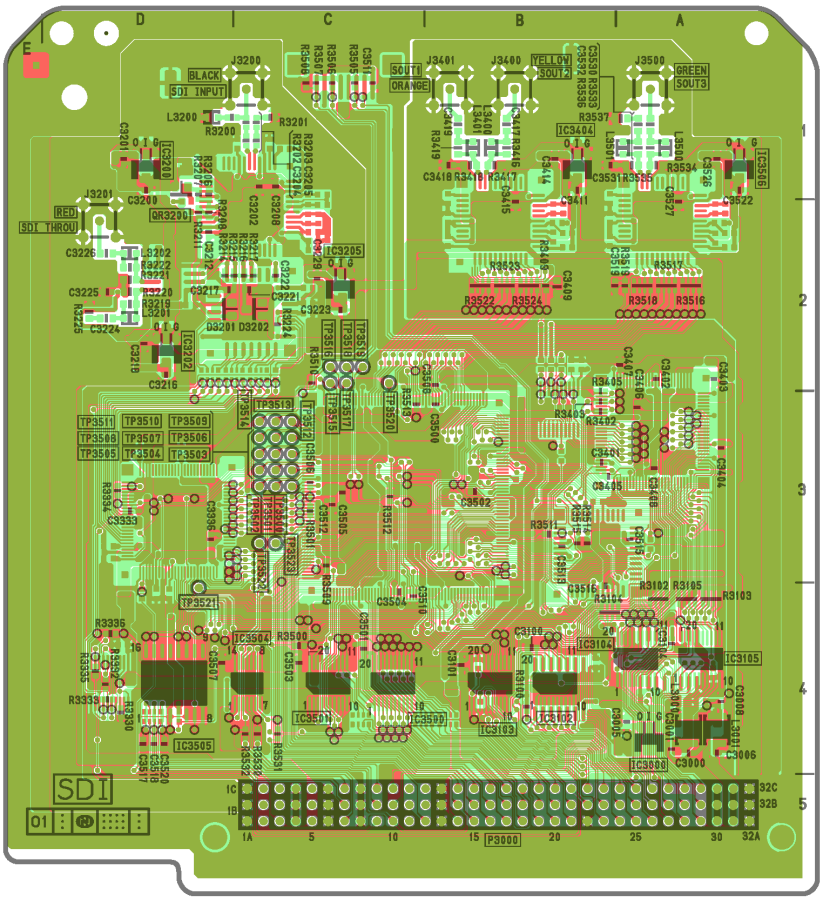
F3A SDI P.C. BOARD (VEP83558A) (AJ-YA455P)

COMPONENT SIDE

REF	LOC
IC3100	B4
IC3101	A4
IC3201	C2
IC3203	D2
IC3204	C2
IC3300	D4
IC3301	D3
IC3400	B3
IC3401	A3
IC3402	B2
IC3502	C3
IC3507	A2
IP3503	B3
P3000	B5
P3500	C1
TG3000	C1
TG3200	D1
TG3400	B1
TP3500	C3
TP3501	C3
TP3503	C3
TP3504	C3
TP3505	C3
TP3506	C3
TP3507	C3
TP3508	C3
TP3509	C3
TP3510	C3
TP3511	C3
TP3512	C3
TP3513	C3
TP3514	C3
TP3515	C2
TP3516	C2
TP3517	C2
TP3518	C2
TP3519	C2
TP3520	C2
TP3521	D4
TP3522	C3
TP3523	C3



(COMPONENT SIDE)



(FOIL SIDE)

FOIL SIDE

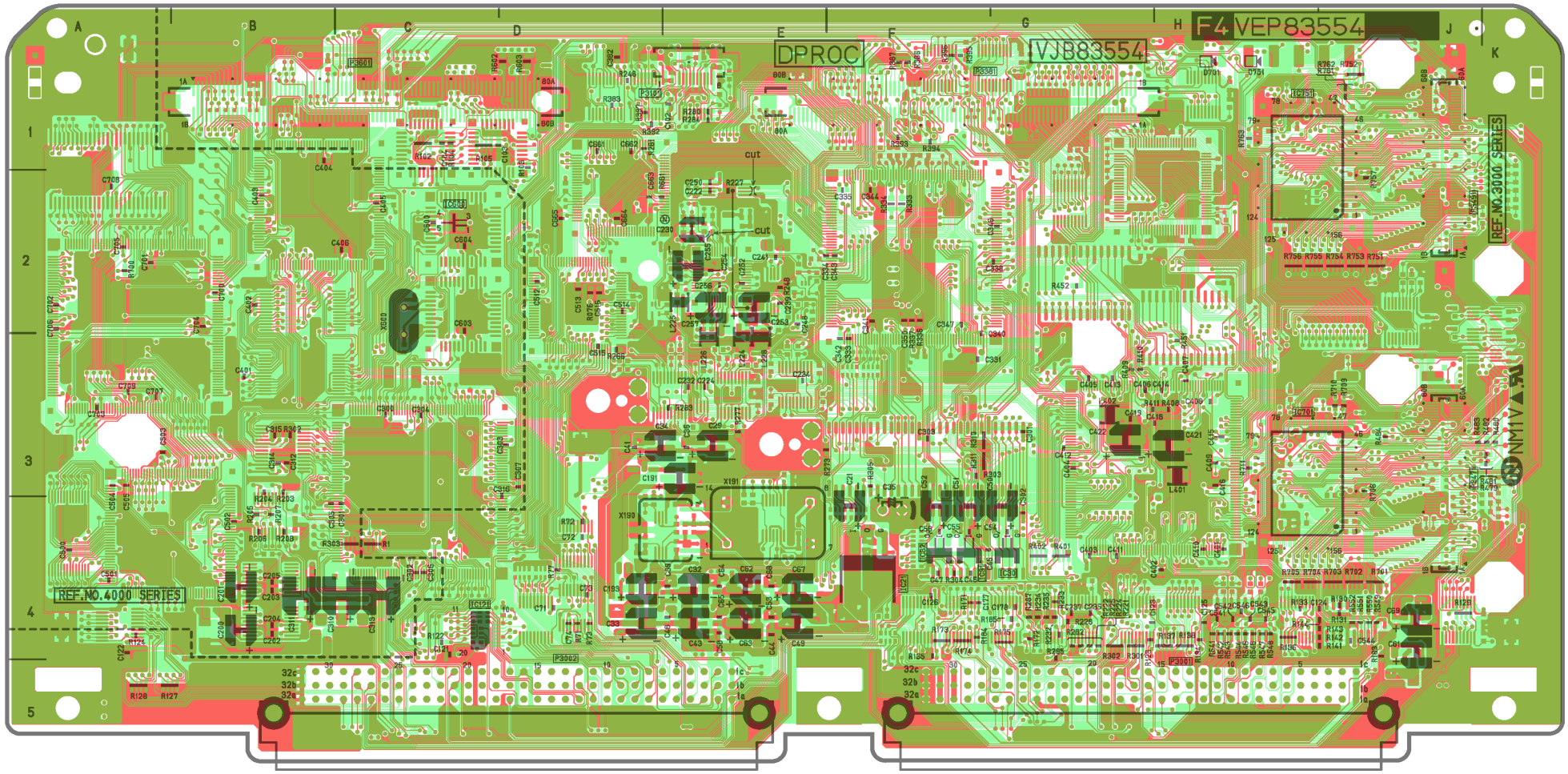
REF	LOC
IC3000	A4
IC3102	B4
IC3103	B4
IC3104	A4
IC3105	A4
IC3200	D1
IC3202	D2
IC3205	C2
IC3404	B1
IC3500	C4
IC3501	C4
IC3504	C4
IC3505	D4
IC3506	A1
P3000	B5
QR3200	D1
TP3500	C3
TP3501	C3
TP3502	C3
TP3503	C3
TP3504	C3
TP3506	C3
TP3507	C3
TP3508	C3
TP3509	C3
TP3509	C3
TP3510	C3
TP3511	C3
TP3512	C3
TP3513	C3
TP3514	C3
TP3515	C2
TP3516	C2
TP3517	C2
TP3518	C2
TP3519	C2
TP3520	C2
TP3521	D4
TP3522	C3
TP3523	C3

F4 D PROC P.C.BOARD (VEP83554B)

COMPONENT SIDE

REF	LOC	REF	LOC
IC3021	F4	P3002	D5
IC3030	G4	P3101	E1
IC3031	F4	P3381	F1
IC3032	F4	P3471	J3
IC3121	C4	P3491	J1
IC3701	H3	P3601	C1
IC3751	H1		
IC4600	C2		
P3001	H5		

CBA-6



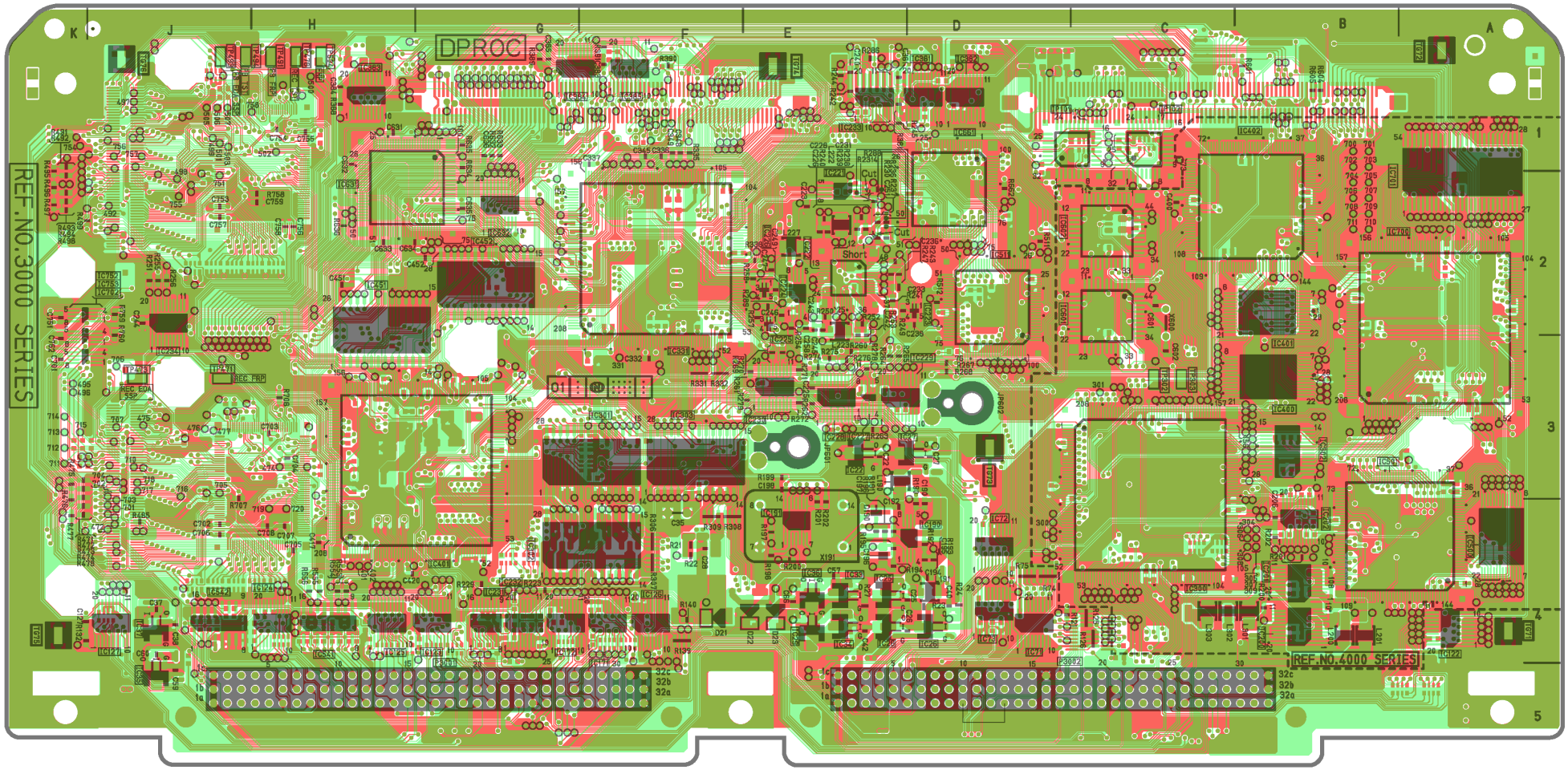
(COMPONENT SIDE)

F4 D PROC P.C.BOARD (VEP83554A)

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3022	E3	IC3036	E4	IC3126	F4	IC3223	D2	IC3233	E1	IC3383	H1	IC3631	H2	IC4302	B3	IC4701	A2	TG3074	E1	TP3504	H1
IC3025	E4	IC3037	J4	IC3127	J4	IC3224	E2	IC3290	E3	IC3384	F1	IC3632	G2	IC4400	B3	IC4900	C4	TG3075	K4	TP4302	C3
IC3026	D4	IC3071	D4	IC3129	G4	IC3225	E2	IC3294	J2	IC3385	F1	IC3661	D2	IC4401	B2	IP3101	D1	TG3076	J1	TP4303	C3
IC3027	E3	IC3072	A1	IC3171	F4	IC3226	E2	IC3301	F3	IC3401	G3	IC3702	K3	IC4402	B2	IP3102	C1	TP3471	J3		
IC3028	E4	IC3072	D4	IC3172	G4	IC3227	E3	IC3302	F4	IC3451	H2	IC3752	K2	IC4500	A4	P3001	G5	TP3473	J3		
IC3029	E4	IC3073	D4	IC3190	D4	IC3228	E3	IC3303	F3	IC3452	H2	IC3759	K2	IC4501	B4	P3002	D5	TP3478	H1		
IC3033	E4	IC3122	A5	IC3191	E4	IC3229	E3	IC3331	F2	IC3511	D2	IC4200	B5	IC4601	C2	TG3071	A4	TP3491	H1		
IC3034	E4	IC3124	H4	IC3221	E2	IC3231	G4	IC3381	D1	IC3541	H4	IC4201	B5	IC4602	C2	TG3072	A1	TP3493	J1		
IC3035	J5	IC3125	H4	IC3222	E2	IC3232	G4	IC3382	D1	IC3542	J4	IC4202	B5	IC4700	A2	TG3073	D3	TP3494	J1		

CBA-7

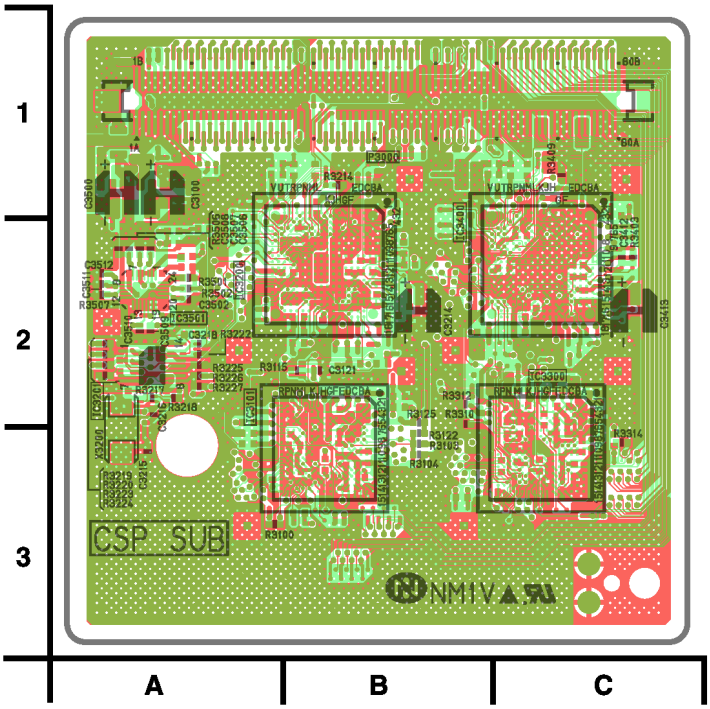


(FOIL SIDE)

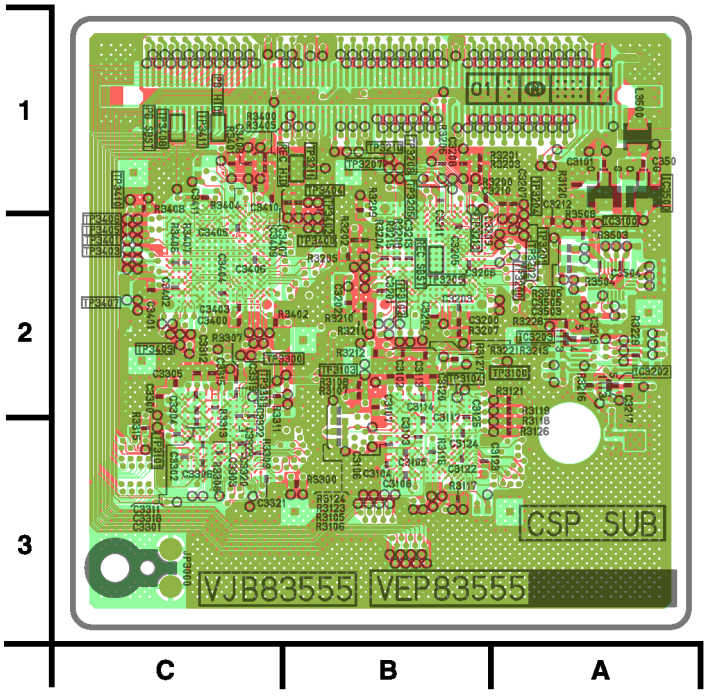
CSP SUB P.C. BOARD (VEP83555A)

COMPONENT SIDE

REF	LOC
IC3101	B3
IC3200	B2
IC3201	A2
IC3300	C3
IC3400	C2
IC3501	A2
P3000	B1



(COMPONENT SIDE)



(FOIL SIDE)

FOIL SIDE

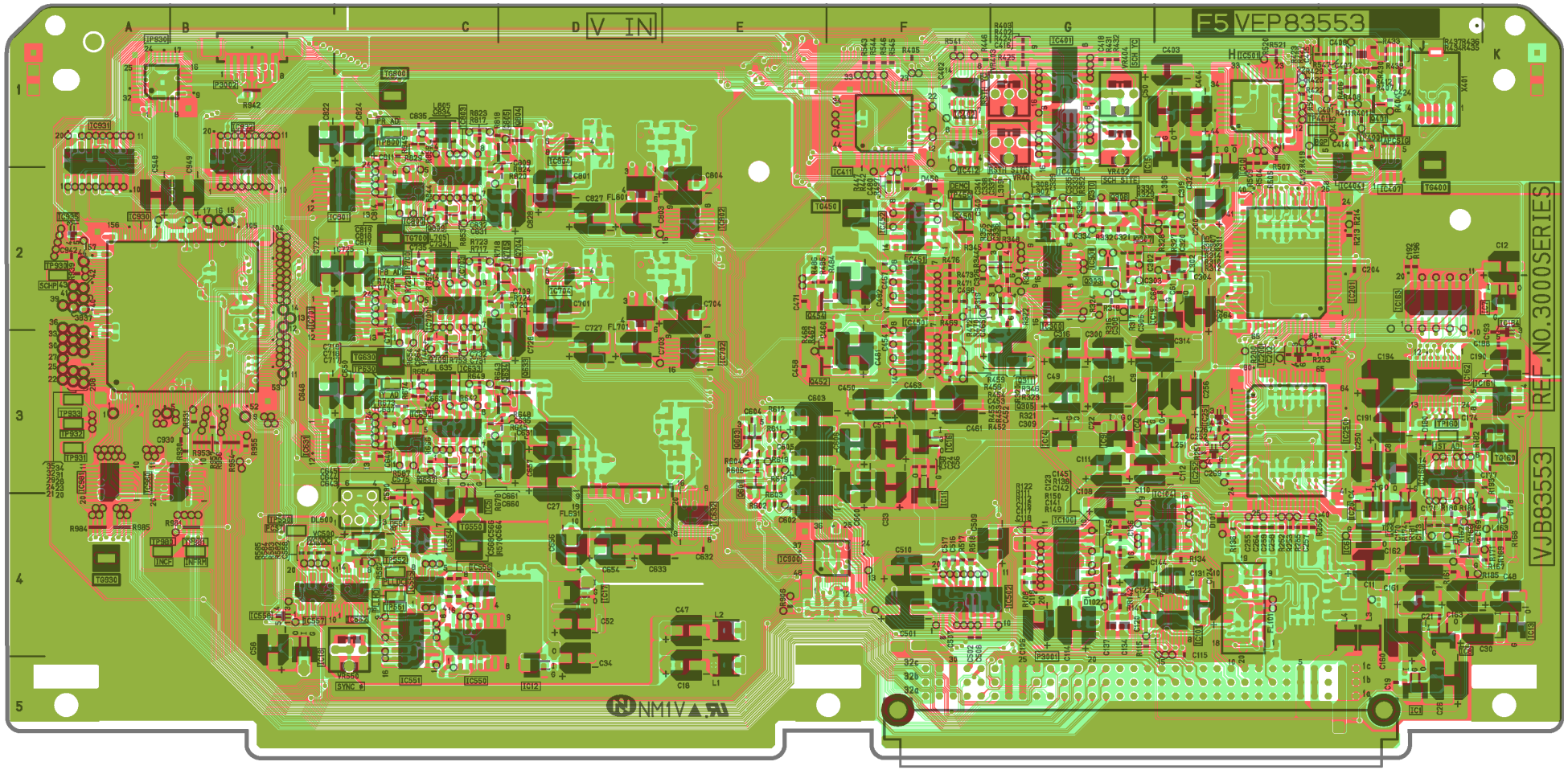
REF	LOC
IC3100	A1
IC3202	A2
IC3203	A2
IC3204	A1
IC3500	A1
TP3100	A2
TP3101	C3
TP3102	B2
TP3103	B2
TP3104	B2
TP3200	A2
TP3201	A2
TP3202	A2
TP3204	A1
TP3205	B1
TP3207	B1
TP3208	B1
TP3209	B2
TP3210	B1
TP3211	B1
TP3213	B1
TP3300	C2
TP3301	C2
TP3400	B2
TP3401	C2
TP3402	B2
TP3403	C2
TP3404	B1
TP3405	C2
TP3406	C2
TP3407	C2
TP3408	C1
TP3409	C2
TP3410	C1
TP3411	C1

F5 V IN P.C. BOARD (VEP83553B)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3001	J5	IC3011	F3	IC3020	J4	IC3200	H3	IC3402	F1	IC3502	F4	IC3631	C3	IC3802	E2	IP3930	A1	Q3311	G3	Q3637	C3	TG3450	F2	TP3450	F2	TP3933	A3
IC3003	J4	IC3012	D5	IC3100	G4	IC3201	H2	IC3404	J1	IC3550	C4	IC3632	E4	IC3803	C2	P3001	G5	Q3401	J1	Q3704	D2	TG3550	C4	TP3550	B4	TP3980	A4
IC3004	G3	IC3013	K4	IC3101	H4	IC3250	H3	IC3407	J1	IC3551	C4	IC3633	C3	IC3804	D1	P3002	B1	Q3450	F2	Q3705	D2	TG3630	C3	TP3551	C4	TP3981	B4
IC3005	C4	IC3014	G3	IC3104	H4	IC3251	H3	IC3411	F1	IC3554	C4	IC3700	C2	IC3900	F4	Q3166	J4	Q3452	E3	Q3709	C3	TG3700	C2	TP3552	C4	VC3500	C4
IC3006	J4	IC3015	H1	IC3160	J3	IC3252	H3	IC3412	F1	IC3555	C4	IC3702	E3	IC3931	A1	Q3303	G2	Q3504	E2	Q3804	D1	TG3800	C1	TP3603	C3	VR3401	G1
IC3007	K2	IC3016	F3	IC3161	K3	IC3300	G2	IC3450	F3	IC3556	C4	IC3703	C2	IC3932	B1	Q3305	G3	Q3601	E3	Q3805	D1	TG3930	A4	TP3700	C2	VR3402	G1
IC3008	J4	IC3017	D4	IC3162	J3	IC3301	G2	IC3451	F2	IC3557	B4	IC3704	D2	IC3935	A2	Q3307	G2	Q3603	E3	Q3809	C2	TP3160	J3	TP3800	C1	VR3403	G1
IC3009	G3	IC3018	B4	IC3163	J2	IC3400	G1	IC3452	F2	IC3558	B4	IC3800	C2	IC3980	B3	Q3308	G2	Q3633	D3	TG3160	K3	TP3400	J1	TP3931	A3	VR3404	G1
IC3010	H1	IC3019	H2	IC3164	K2	IC3401	G1	IC3501	H1	IC3630	C3	IC3801	C2	IC3981	A3	Q3310	G2	Q3634	D3	TG3400	J1	TP3401	J1	TP3932	A3	VR3550	C4

CBA-9



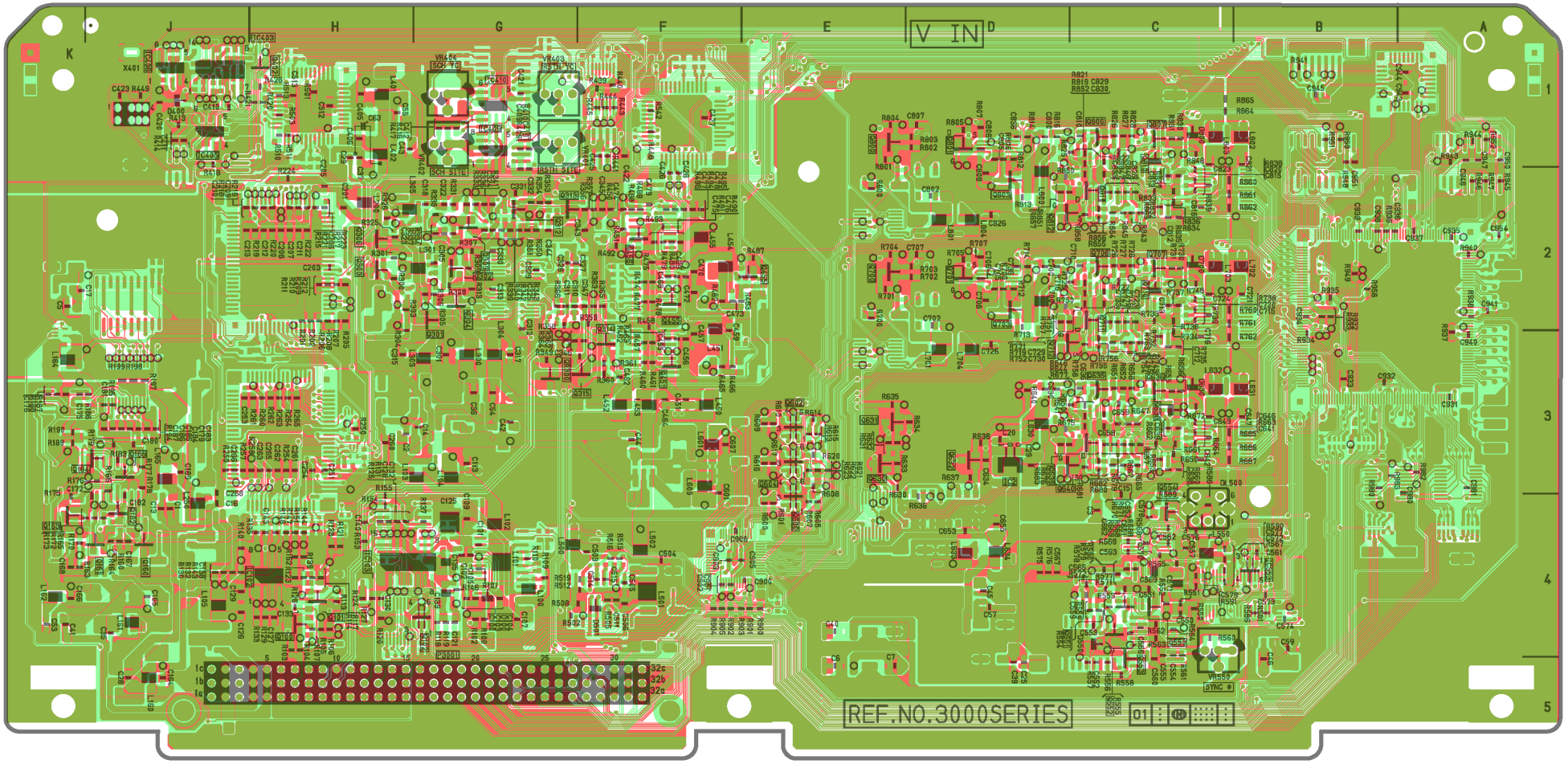
(COMPONENT SIDE)

F5 V IN P.C.BOARD (VEP83553B)

CBA-10

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3002	D3	P3001	G5	Q3165	J3	Q3314	F3	Q3552	C4	Q3635	C3	Q3710	C2	Q3811	C2
IC3102	H4	Q3100	H4	Q3300	H2	Q3315	F3	Q3553	C5	Q3638	C3	Q3711	C2	Q3812	D2
IC3103	H4	Q3101	H4	Q3301	G2	Q3402	H1	Q3554	C4	Q3639	C3	Q3712	D3	QR3300	G3
IC3403	J1	Q3102	G4	Q3302	G2	Q3451	F3	Q3600	E4	Q3640	D3	Q3800	E1	VR3401	G1
IC3405	J1	Q3160	J4	Q3304	G2	Q3453	F2	Q3602	E3	Q3700	E2	Q3801	D1	VR3402	G1
IC3406	J1	Q3161	J4	Q3306	H2	Q3455	E2	Q3604	E3	Q3701	D2	Q3803	D2	VR3403	G1
IC3409	G1	Q3162	J4	Q3309	G2	Q3456	F2	Q3630	E3	Q3703	D2	Q3806	C1	VR3404	G1
IC3410	G1	Q3163	K4	Q3312	G2	Q3550	C4	Q3631	E3	Q3706	C2	Q3807	C1	VR3550	C4
IC3553	B4	Q3164	J3	Q3313	G2	Q3551	C4	Q3632	D3	Q3707	C2	Q3810	C1		



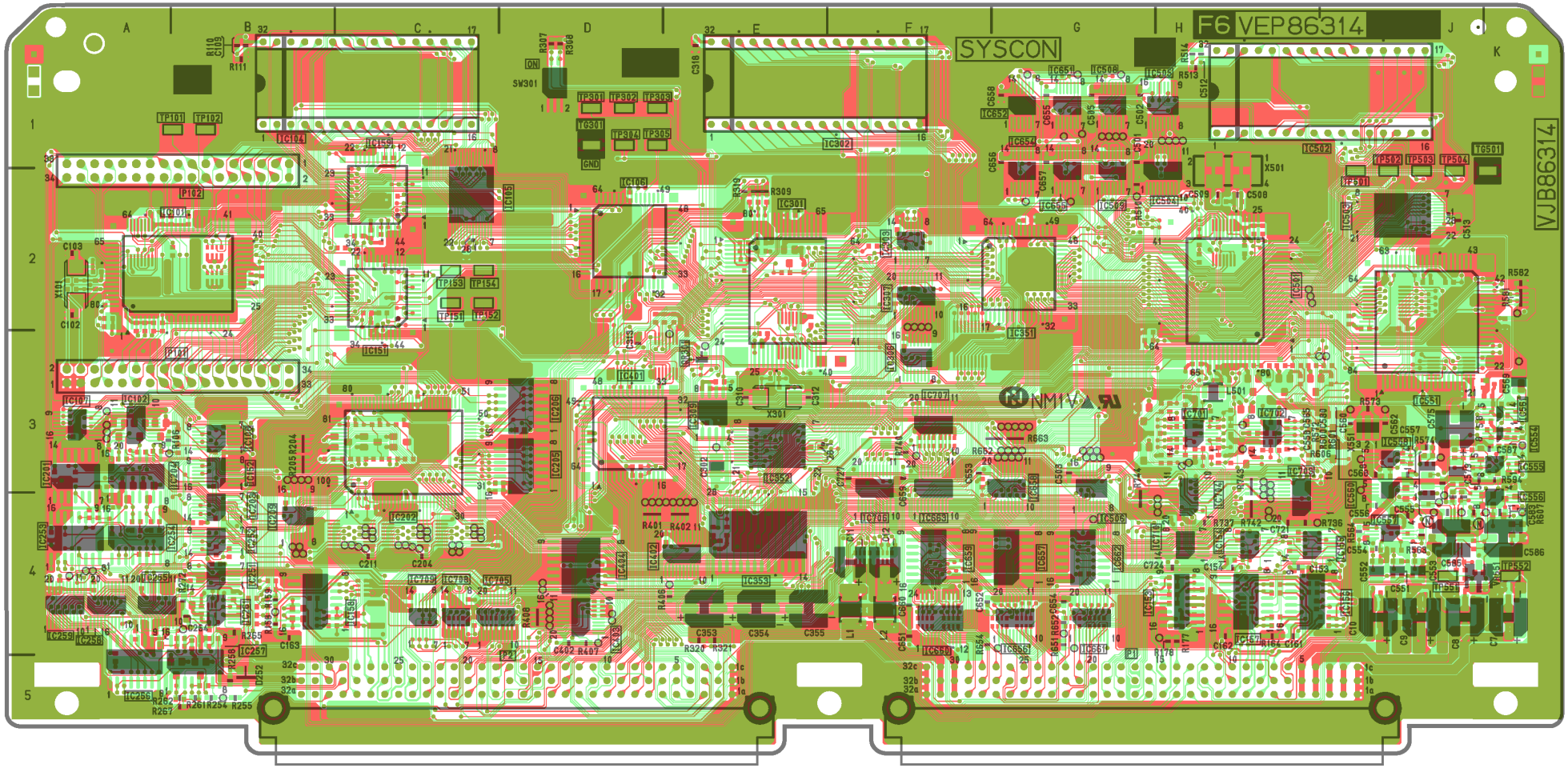
(FOIL SIDE)

F6 SYSCON P.C. BOARD (VEP86314B)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC101	B2	IC153	H4	IC203	B4	IC255	A4	IC306	F3	IC404	D4	IC551	J3	IC652	G1	IC662	G4	IC708	C4	TG501	K1	TP303	D1	VR551	K4
IC102	A3	IC154	H4	IC204	A3	IC256	A5	IC307	F2	IC501	H2	IC554	K3	IC654	G1	IC663	F3	IC709	C4	TP101	B1	TP304	D1		
IC104	C1	IC155	H4	IC205	D3	IC257	B5	IC309	E3	IC502	H1	IC555	K3	IC655	G1	IC701	H3	IC710	H4	TP102	B1	TP305	D1		
IC105	C2	IC156	H4	IC206	D3	IC258	A4	IC351	G2	IC503	J2	IC556	K3	IC656	G4	IC702	H3	P1	G5	TP151	C2	TP501	J1		
IC106	D2	IC157	H4	IC209	B4	IC259	A4	IC352	E3	IC504	H2	IC557	J4	IC657	G4	IC703	H3	P2	D5	TP152	C2	TP502	J1		
IC107	A3	IC158	B4	IC251	B4	IC261	B4	IC353	E4	IC505	H1	IC558	J3	IC658	G3	IC704	H3	P101	B3	TP153	C2	TP503	J1		
IC108	B3	IC159	C2	IC252	B4	IC301	E2	IC401	D3	IC506	G3	IC560	J3	IC659	F4	IC705	C4	P102	B2	TP154	C2	TP504	J1		
IC151	C2	IC201	A3	IC253	A4	IC302	E1	IC402	E4	IC508	G1	IC561	K3	IC660	F4	IC706	F3	QR301	E3	TP301	D1	TP551	J4		
IC152	B3	IC202	C3	IC254	A4	IC303	F2	IC403	D4	IC509	G1	IC651	G1	IC661	G4	IC707	F3	TG301	D1	TP302	D1	TP552	J4		

CBA-11



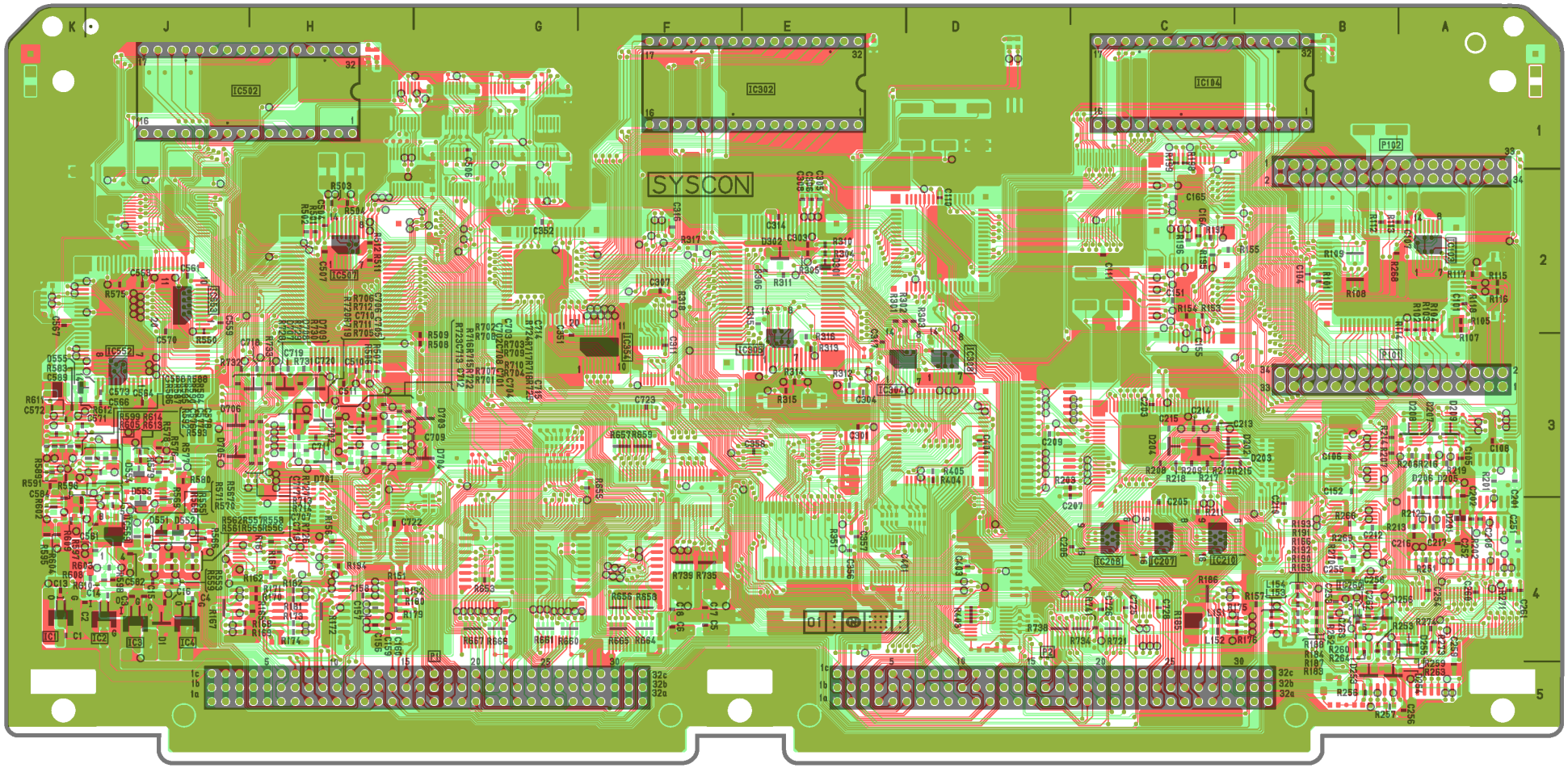
(COMPONENT SIDE)

F6 SYSCON P.C. BOARD (VEP86314B)

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC
IC1	K4	IC260	B4	IC553	J2
IC2	J4	IC302	E1	IC559	J4
IC3	J4	IC304	E3	P1	G5
IC4	J4	IC305	E3	P2	D5
IC103	A2	IC308	D3	P101	B3
IC104	C1	IC354	F3	P102	B1
IC207	C4	IC502	H1		
IC208	C4	IC507	H2		
IC210	C4	IC552	J3		

CBA-12



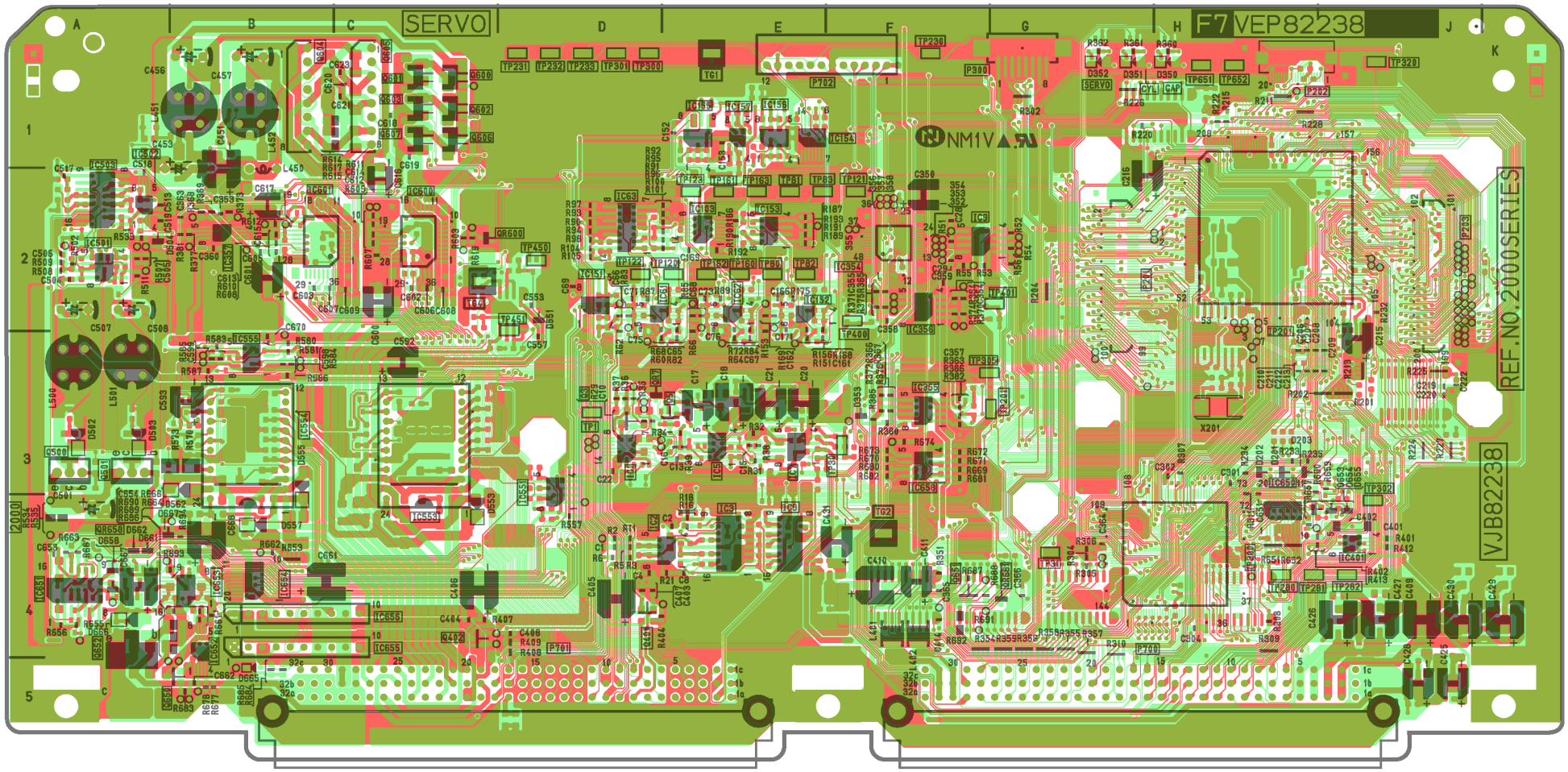
(FOIL SIDE)

F7 SERVO P.C. BOARD (VEP82238B)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC2001	D3	IC2063	D2	IC2354	F2	IC2554	B3	IC2655	C4	P2700	G5	Q2600	C1	Q2651	F4	TP2001	D3	TP2122	D2	TP2232	D1	TP2320	J1
IC2002	E4	IC2103	E2	IC2356	F2	IC2555	B3	IC2656	C4	P2701	D5	Q2601	C1	Q2652	A4	TP2030	F3	TP2123	E2	TP2233	D1	TP2400	F2
IC2003	E4	IC2151	D2	IC2357	B2	IC2600	C2	IC2658	F3	P2702	E1	Q2602	C1	QR2007	D3	TP2031	G4	TP2160	E2	TP2280	H4	TP2401	G2
IC2005	E3	IC2152	E2	IC2401	J4	IC2601	B2	IP2201	H2	Q2003	D3	Q2603	C1	QR2600	C2	TP2080	E2	TP2161	E2	TP2281	H4	TP2450	D2
IC2007	E3	IC2153	E2	IC2501	A2	IC2650	H3	IP2300	H4	Q2005	E3	Q2604	B1	QR2658	A4	TP2081	E2	TP2162	E2	TP2282	J4	TP2451	D2
IC2008	E4	IC2154	E1	IC2502	A2	IC2651	A4	P2201	G2	Q2401	D4	Q2605	C1	QR2661	G4	TP2082	E2	TP2163	E2	TP2300	D1	TP2651	H1
IC2009	F2	IC2155	E1	IC2503	A2	IC2652	B4	P2202	H1	Q2402	C4	Q2606	C1	TG2001	E1	TP2083	E2	TP2201	G3	TP2301	D1	TP2652	H1
IC2061	D2	IC2156	E1	IC2551	D3	IC2653	B4	P2203	J2	Q2500	A3	Q2607	C1	TG2002	F4	TP2120	E2	TP2230	F1	TP2302	J4		
IC2062	E2	IC2157	E1	IC2553	C3	IC2654	B4	P2300	G1	Q2501	A3	Q2650	B5	TG2004	C2	TP2121	F2	TP2231	D1	TP2305	G3		

CBA-13



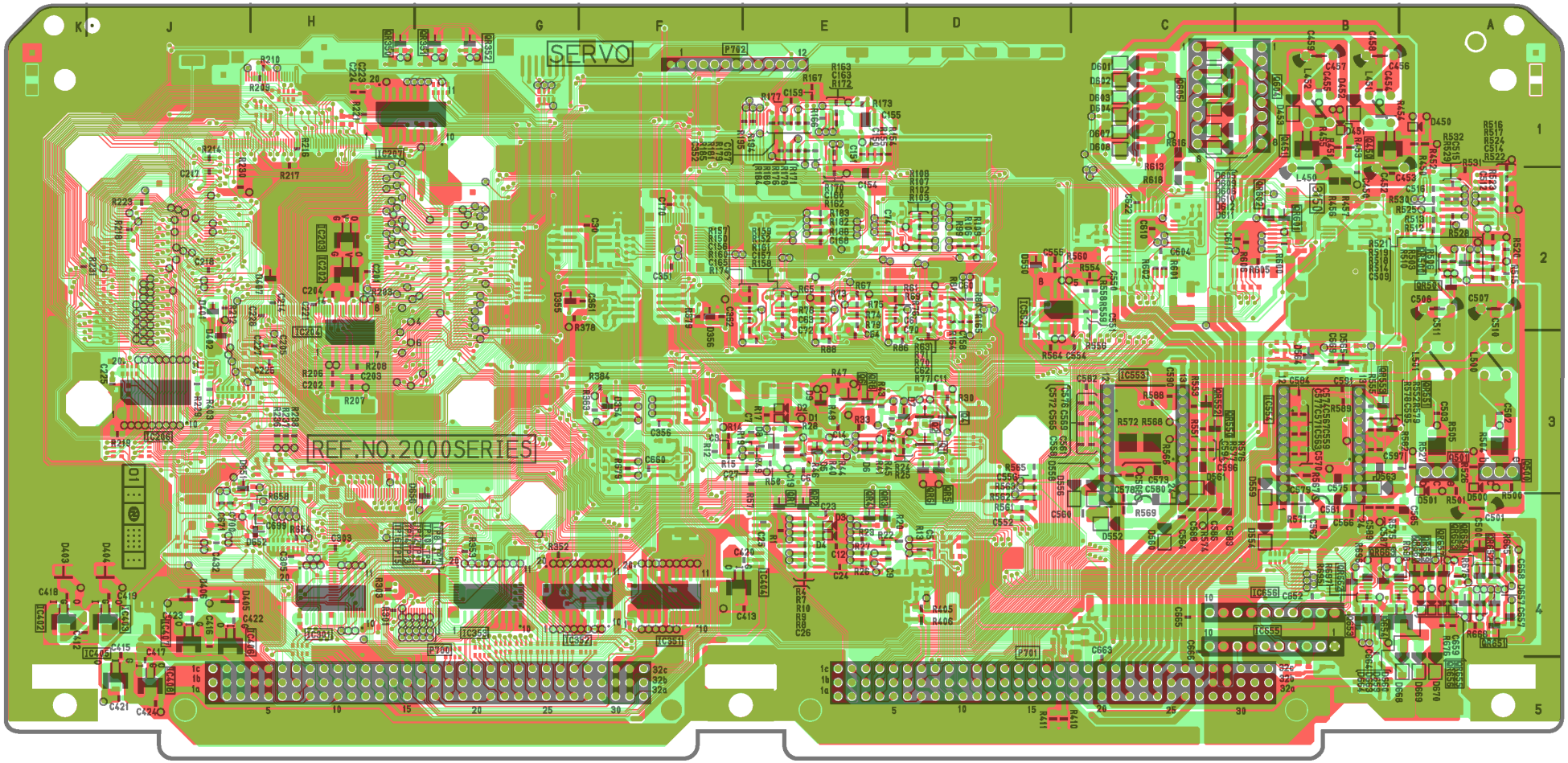
(COMPONENT SIDE)

F7 SERVO P.C. BOARD (VEP82238B)

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC2202	H2	IC2402	K4	IC2554	B3	Q2450	B1	QR2002	E4	QR2500	A2	QR2652	A4	QR2663	B4	TP2015	H4
IC2203	H2	IC2403	J4	IC2655	B4	Q2451	B1	QR2003	E4	QR2501	A2	QR2653	A4	TP2007	G4	TP2016	H4
IC2204	H2	IC2404	E4	IC2656	B4	Q2500	A3	QR2004	E4	QR2550	C3	QR2654	A4	TP2008	G4		
IC2206	J3	IC2405	J5	P2701	D5	Q2501	A3	QR2005	D3	QR2551	B3	QR2655	A4	TP2009	G4		
IC2207	H1	IC2406	J4	P2702	F1	Q2604	B1	QR2006	D3	QR2552	C3	QR2656	A4	TP2010	G4		
IC2301	H4	IC2407	J4	Q2001	D3	Q2605	C1	QR2006	E3	QR2553	B3	QR2657	A4	TP2011	G4		
IC2351	F4	IC2408	J5	Q2002	D3	Q2653	B4	QR2350	H1	QR2601	B2	QR2659	A4	TP2012	G4		
IC2352	F4	IC2552	D2	Q2004	D3	Q2654	A4	QR2351	G1	QR2602	B2	QR2660	A4	TP2013	H4		
IC2353	G4	IC2553	C3	Q2006	E3	QR2001	E4	QR2352	G1	QR2651	A4	QR2662	B4	TP2014	H4		

CBA-14

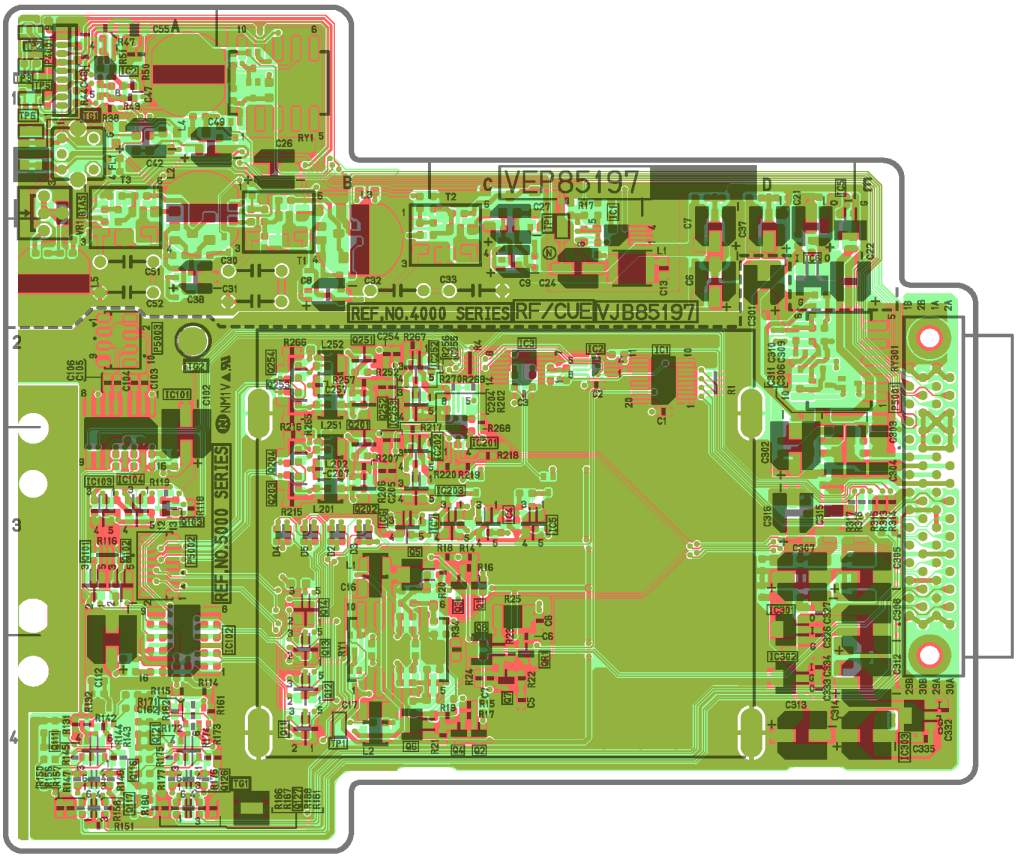


(FOIL SIDE)

RF CUE P.C. BOARD (VEP85197A)

COMPONENT SIDE

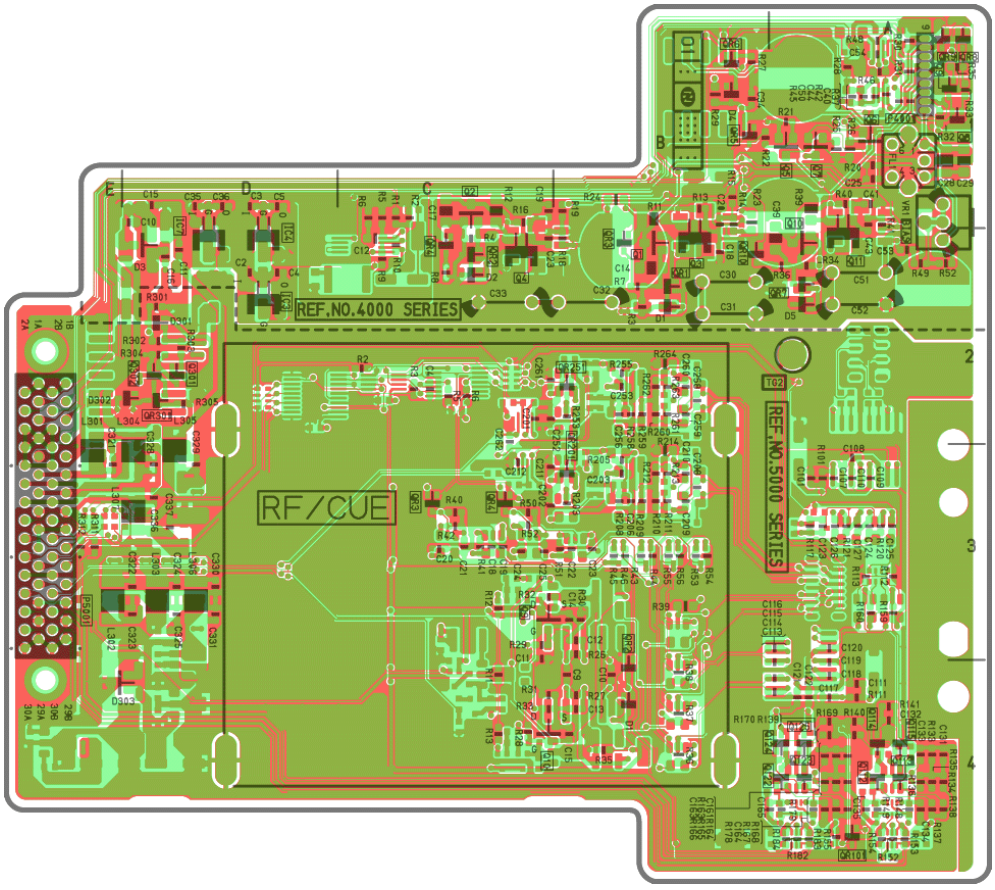
REF	LOC	REF	LOC
IC4001	C2	Q5007	C4
IC4002	A1	Q5008	C4
IC4005	D2	Q5011	B4
IC4006	D2	Q5012	B4
IC5001	D2	Q5013	B4
IC5002	C2	Q5014	B3
IC5003	C2	Q5101	A3
IC5004	C3	Q5102	A3
IC5005	C3	Q5103	A3
IC5006	B3	Q5111	A4
IC5007	C3	Q5116	A4
IC5012	A3	Q5117	A4
IC5101	A2	Q5121	A4
IC5103	A3	Q5126	A4
IC5104	A3	Q5127	A4
IC5201	C3	Q5202	B3
IC5202	B3	Q5203	B3
IC5203	B3	Q5204	B3
IC5252	B2	Q5251	B2
IC5253	B2	Q5252	B2
IC5301	D3	Q5253	B2
IC5302	D4	Q5254	B2
IC5303	D4	QR5001	C4
P4001	A1	T4001	C2
P5001	E2	TG4001	A1
P5002	A3	TG5001	B4
P5003	A2	TG5002	A2
Q5001	C3	TP4002	A1
Q5002	C4	TP4003	A1
Q5003	C3	TP4005	A1
Q5004	C4	TP4006	A1
Q5005	B3	TP5001	B4
Q5006	B4	VR4001	A1



(COMPONENT SIDE)

FOIL SIDE

REF	LOC	REF	LOC
IC4003	D2	QR4007	A2
IC4004	D2	QR4008	A1
IC4007	D2	QR4009	A1
P4001	A1	QR4010	B2
P5001	E3	QR5002	B3
Q4001	B2	QR5003	C3
Q4002	A1	QR5004	C3
Q4003	A1	QR5101	A4
Q4004	C2	QR5201	B3
Q4005	C1	QR5251	B2
Q4006	A1	QR5301	D2
Q4008	A1	TG5002	A2
Q4009	B2	VR4001	A1
Q4010	A2		
Q4011	A2		
Q5009	C3		
Q5010	C4		
Q5112	A4		
Q5113	A4		
Q5114	A4		
Q5115	A4		
Q5122	A4		
Q5123	A4		
Q5124	A4		
Q5125	A4		
Q5301	D2		
Q5302	D2		
QR4001	B2		
QR4002	C2		
QR4003	B2		
QR4004	C2		
QR4005	B1		
QR4006	B1		

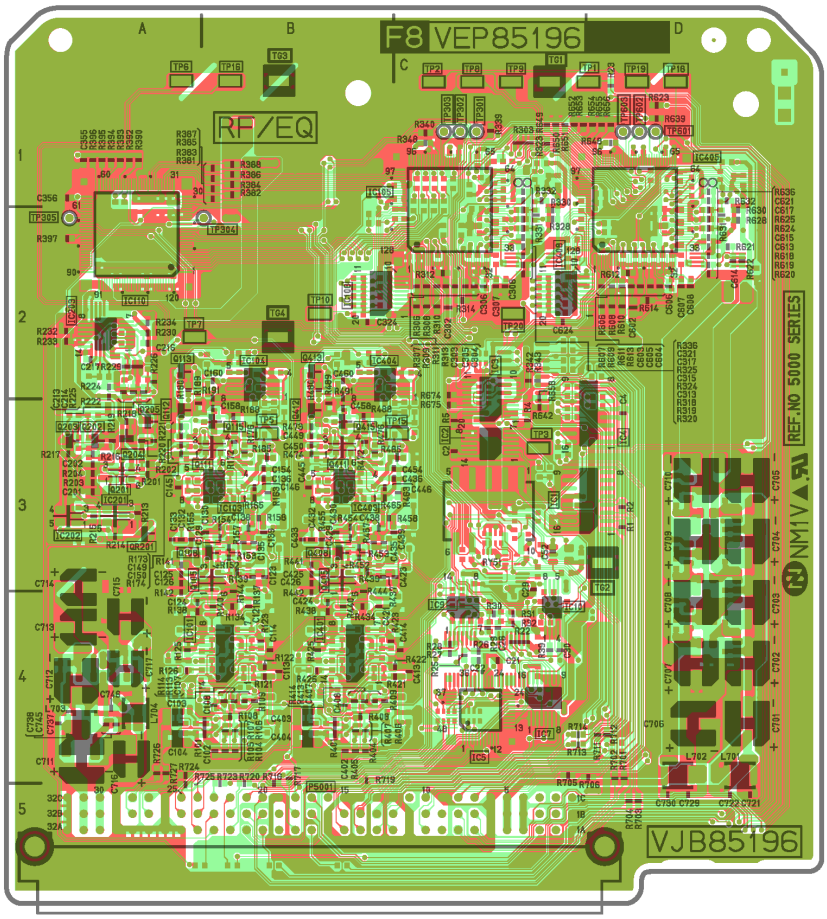


(FOIL SIDE)

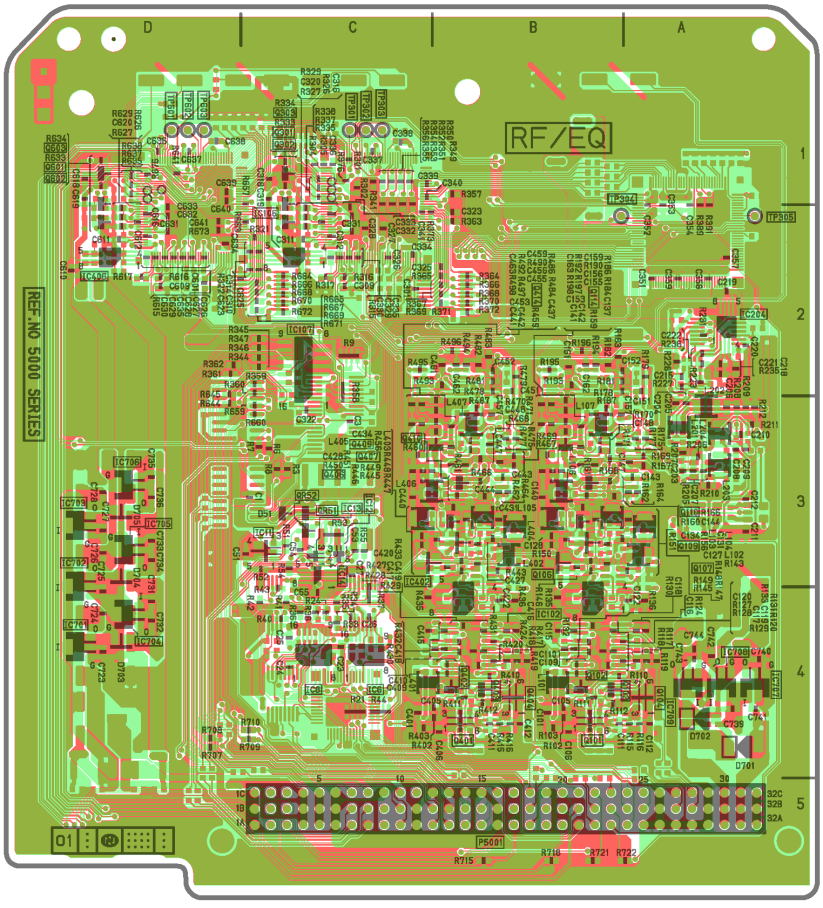
F8 RF EQ P.C. BOARD (VEP85196A)

COMPONENT SIDE

REF	LOC	REF	LOC
IC5001	D3	Q5405	B3
IC5002	C3	Q5408	B3
IC5003	C2	Q5411	B3
IC5004	D3	Q5412	B3
IC5005	C4	Q5413	B2
IC5007	C4	Q5415	B3
IC5009	C4	QR5201	A3
IC5010	C4	TG5001	B5
IC5101	B4	TG5002	D3
IC5103	B3	TG5003	B1
IC5104	B2	TG5004	B2
IC5105	C1	TP5001	D1
IC5108	B2	TP5002	C1
IC5110	A2	TP5003	C3
IC5201	A3	TP5005	B3
IC5202	A3	TP5006	A1
IC5203	A2	TP5007	A2
IC5401	B4	TP5008	C1
IC5403	B3	TP5009	C1
IC5404	B2	TP5010	B2
IC5405	D1	TP5015	C3
IC5408	C2	TP5016	B1
P5001	B5	TP5018	D1
Q5105	B3	TP5019	D1
Q5108	B3	TP5020	C2
Q5111	B3	TP5301	C1
Q5112	A3	TP5302	C1
Q5113	A2	TP5303	C1
Q5115	B3	TP5304	B2
Q5201	A3	TP5305	A2
Q5202	A3	TP5601	D1
Q5203	A3	TP5602	D1
Q5204	A3	TP5603	D1
Q5205	A3		



(COMPONENT SIDE)



(FOIL SIDE)

FOIL SIDE

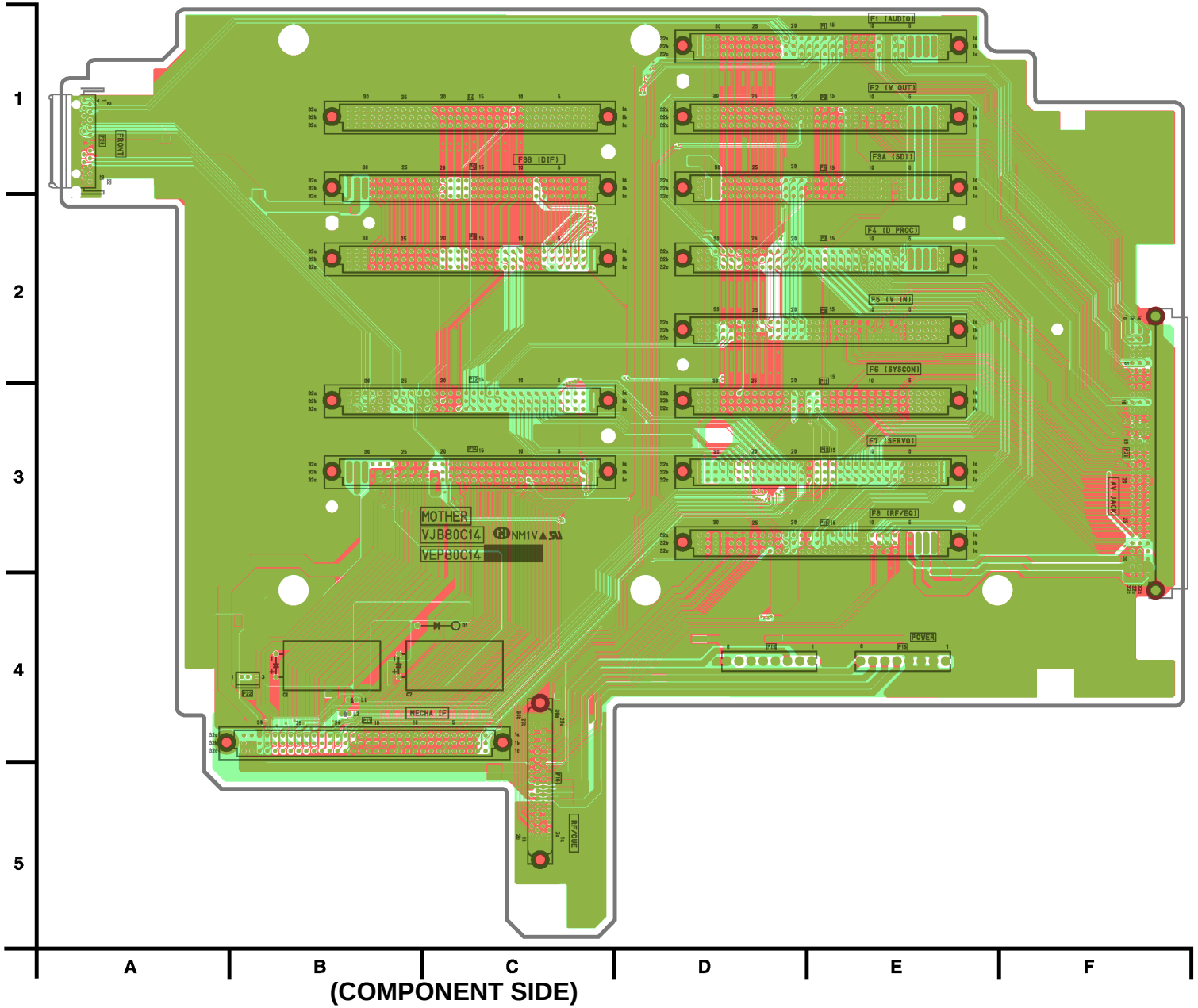
REF	LOC	REF	LOC
IC5006	C4	Q5401	B4
IC5008	C4	Q5402	B4
IC5011	C3	Q5403	B4
IC5012	C3	Q5404	B4
IC5013	C3	Q5406	C3
IC5014	C3	Q5407	C3
IC5102	B4	Q5409	C3
IC5106	C2	Q5410	B3
IC5107	C2	Q5414	B3
IC5204	A1	Q5601	D1
IC5402	B4	Q5602	D2
IC5406	D2	Q5603	D1
IC5701	D4	QR5051	C3
IC5702	D3	QR5052	C3
IC5703	D3	TP5301	C1
IC5704	D4	TP5302	C1
IC5705	D3	TP5303	C1
IC5706	D3	TP5304	B1
IC5707	A4	TP5305	A1
IC5708	A4	TP5601	D1
IC5709	A4	TP5602	D1
P5001	B5	TP5603	D1
Q5101	B4		
Q5102	B4		
Q5103	B4		
Q5104	A4		
Q5106	B3		
Q5107	B3		
Q5109	B3		
Q5110	B3		
Q5114	B3		
Q5301	C1		
Q5302	C2		
Q5303	C1		

MOTHER P.C. BOARD (VEP80C14A)

COMPONENT SIDE

REF	LOC
P1	E1
P3	E1
P4	C1
P5	E1
P6	C1
P7	E2
P8	C2
P9	E2
P11	E3
P12	C3
P13	E3
P14	C3
P15	E3
P16	C5
P17	B4
P18	E4
P19	D4
P20	A1
P21	F3
P22	B4

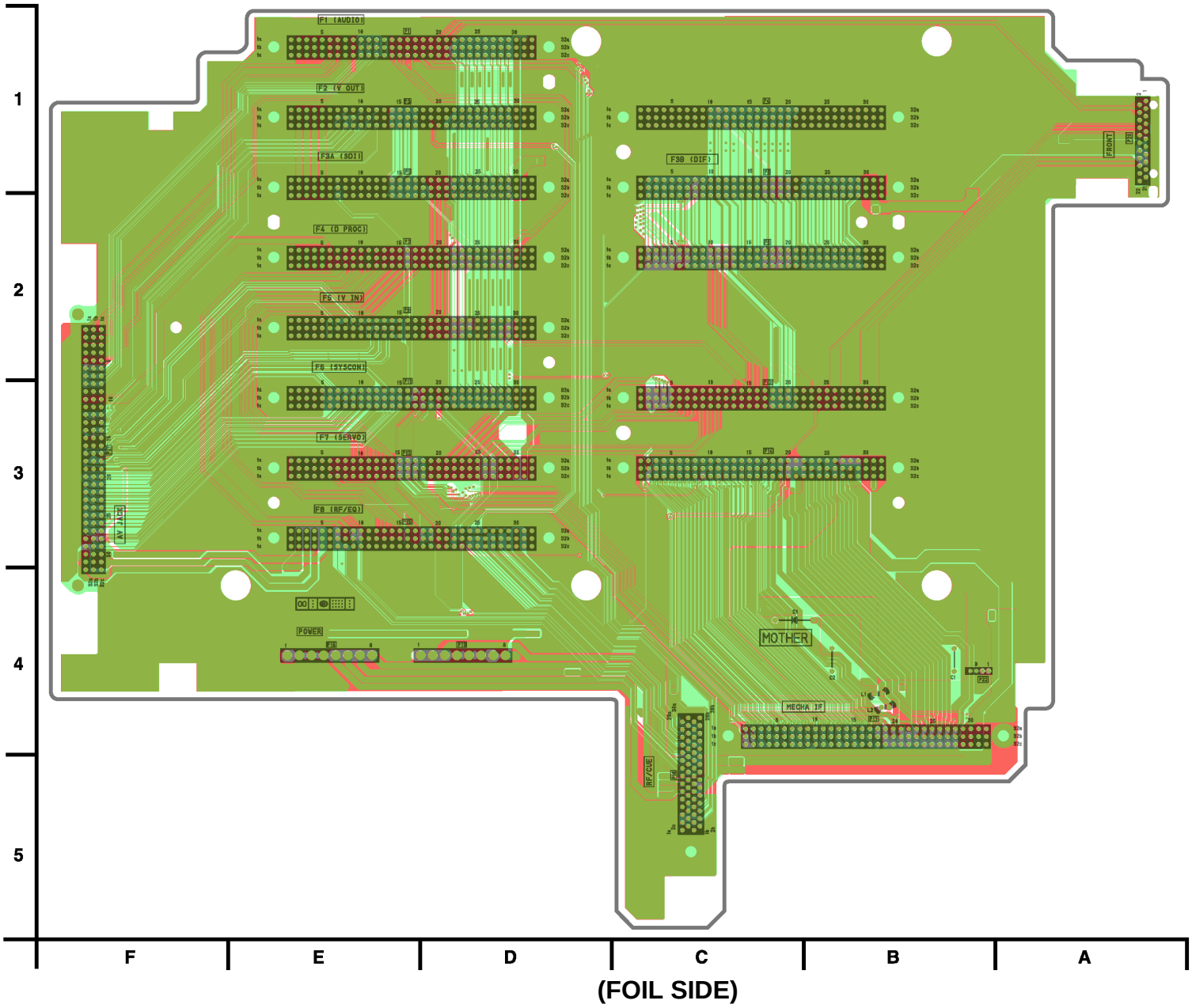
CBA-17



(COMPONENT SIDE)

MOTHER P.C. BOARD (VEP80C14A)

CBA-18



(FOIL SIDE)

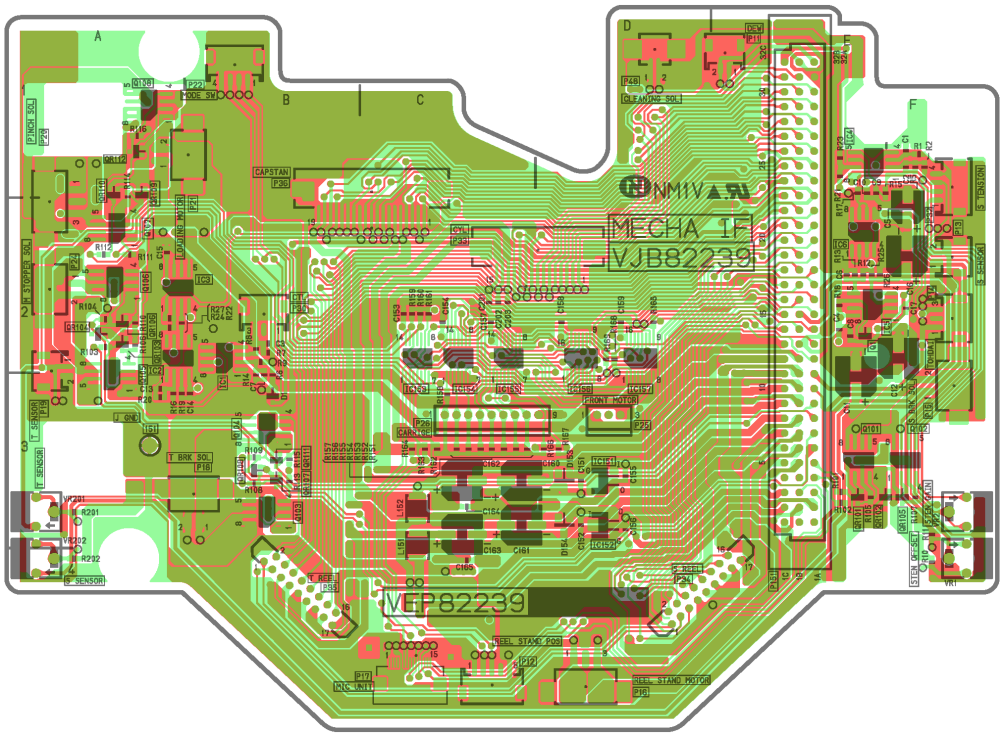
FOIL SIDE

REF	LOC
P1	E1
P3	E1
P4	C1
P5	E1
P6	C1
P7	E2
P8	C2
P9	E2
P11	E3
P12	C3
P13	E3
P14	C3
P15	E3
P16	C5
P17	B4
P18	E4
P19	D4
P20	A1
P21	F3
P22	B4

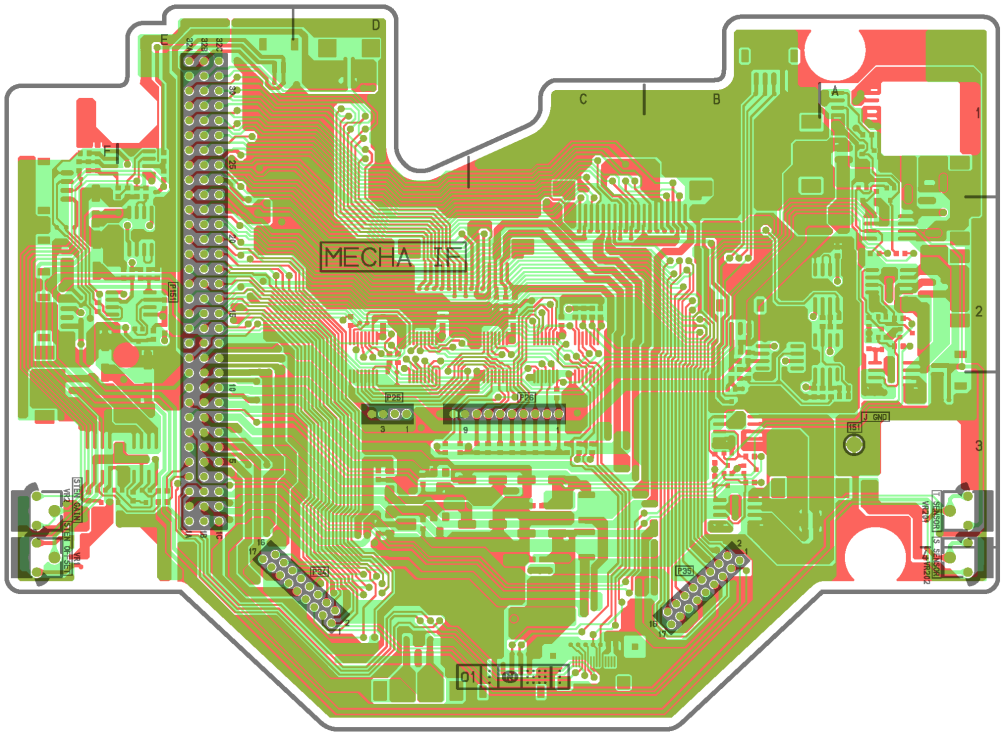
MECHA IF P.C. BOARD (VEP82239A)

COMPONENT SIDE

REF	LOC	REF	LOC
IC1	B2	P33	C2
IC2	A2	P34	D4
IC3	A2	P35	B4
IC4	E1	P36	B1
IC5	A2	P48	D1
IC5	E2	P151	E4
IC6	E2	Q1	E2
IC151	D3	Q101	E3
IC152	D3	Q102	F3
IC153	C2	Q103	B3
IC154	C2	Q104	B3
IC155	C2	Q106	A2
IC156	D2	Q107	A2
IC157	D2	Q108	A1
P11	E1	QR101	E3
P12	C4	QR102	E3
P13	F2	QR103	A2
P14	F2	QR104	A2
P15	F3	QR105	F3
P16	D4	QR106	A2
P17	C4	QR107	B3
P18	B3	QR108	B3
P19	A2	QR109	A1
P20	A1	QR110	A1
P21	B1	QR111	B3
P22	B1	QR112	A1
P24	A2	VR1	F4
P25	D3	VR2	F3
P26	C3	VR201	A3
P30	B2	VR202	A3
P32	F1		



(COMPONENT SIDE)

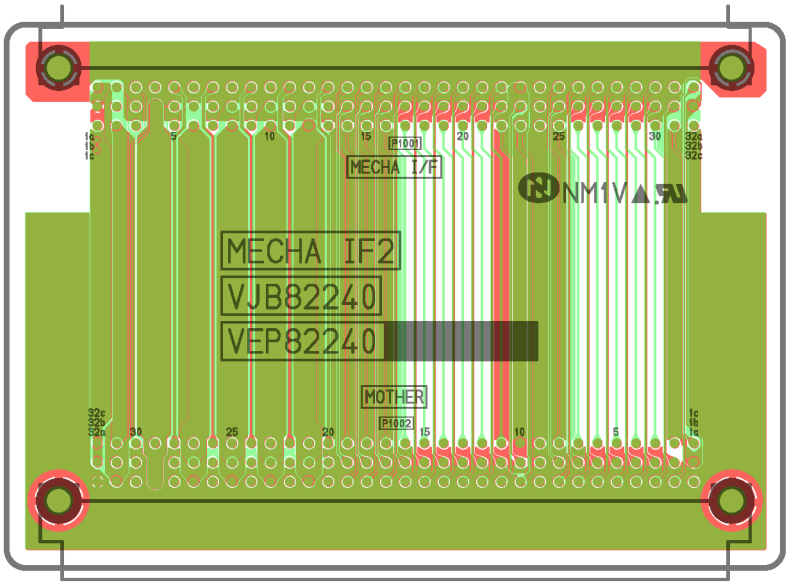


FOIL SIDE

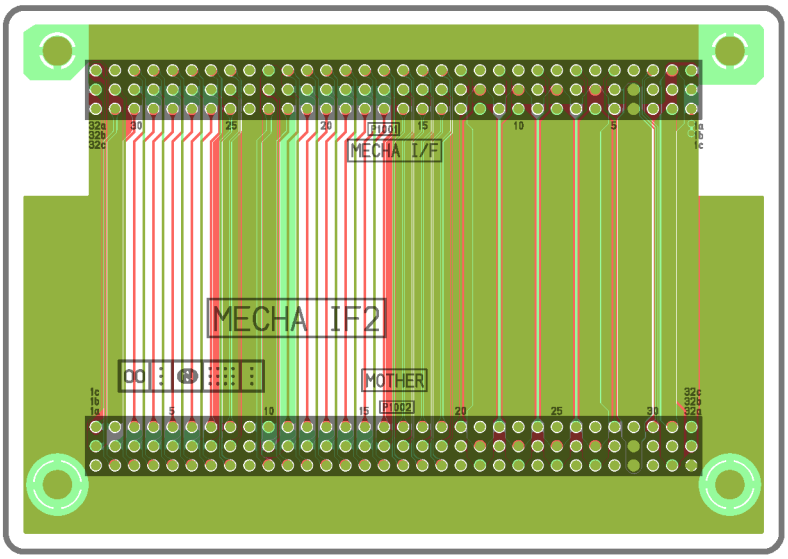
REF	LOC
P151	E2
P25	D3
P26	C3
P34	D4
P35	B4
VR1	F4
VR2	F3
VR201	A3
VR202	A4

(FOIL SIDE)

MECHA IF2 P.C.BOARD (VEP82240A)



(COMPONENT SIDE)



(FOIL SIDE)

POWER1 P.C. BOARD (VEP81221B)

COMPONENT SIDE

REF	LOC
IC1001	C3
IC1101	C4
IC1102	D4
IC1103	C3
IC1201	D2
IC1202	D3
IC1203	D4
IC1205	D1
P1103	A1
P1201	E2
P1202	E3
Q1001	B1
Q1002	D2
Q1003	D2
Q1004	D3
Q1102	B2
Q1103	B2
VR1102	C4
VR1201	D3

JAPAN ONLY

⚠ 警 告

感電注意

AC100V の加わっている活電部（充電部、活電部）に直接触れないでください。

+ 感電ややけどの可能性があります。

① ⚠ 警 告 ⚠ 印の部品は安全上重要な部品です。交換するときは、安全及び性能維持のため必ず指定の部品をご使用ください。

② ▭ 内は充電部です。AC100Vが加わっておりますので点検、修理のときは感電しないよう充分ご注意ください。

③ 部品交換時には、電源プラグをぬいてから行ってください。

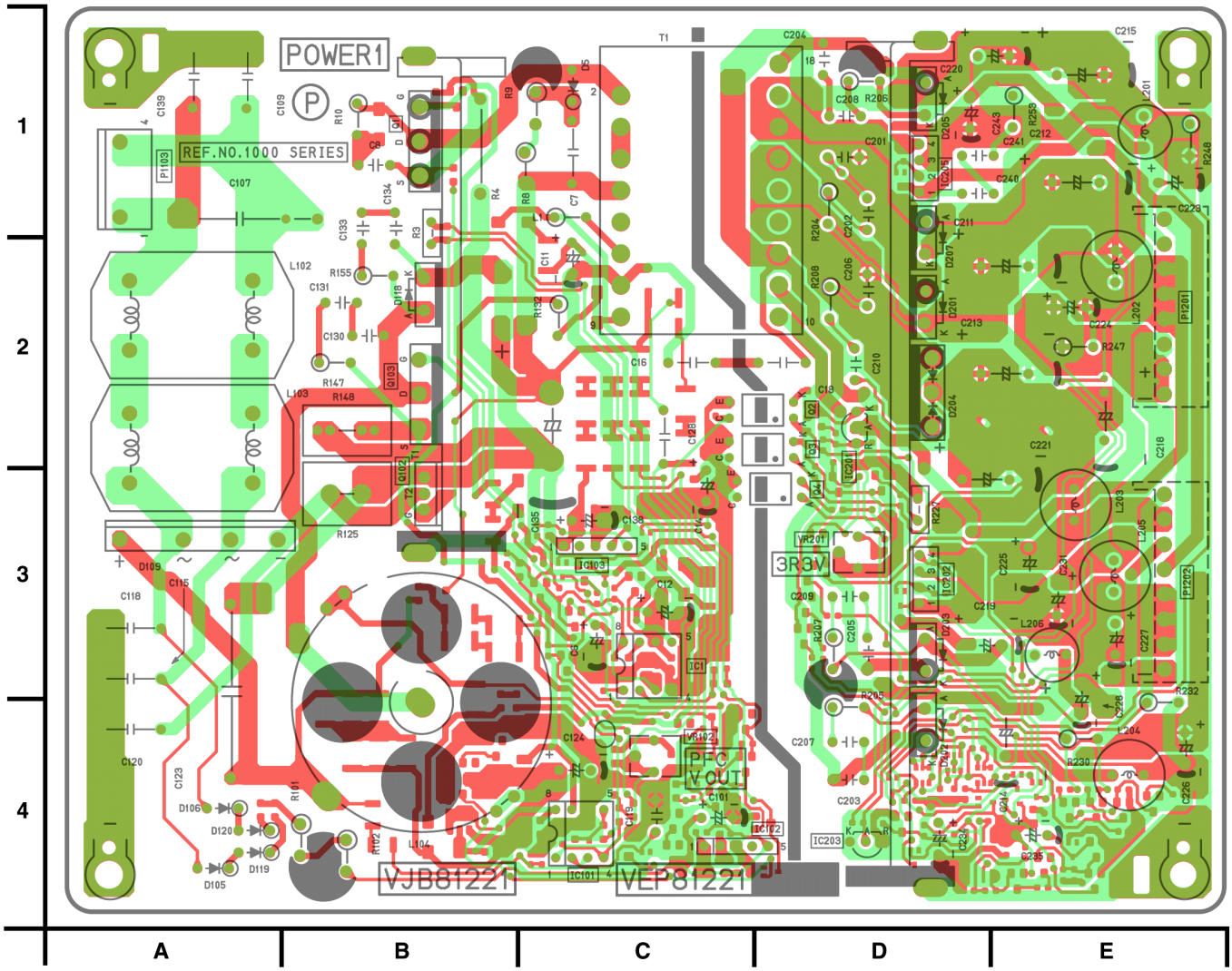
④ 一次側（充電部）の電圧・波形は、一次側アースを基準に測定してください。

⑤ 部品品番は、部品価格表で確認の上交換ください。

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS. USE ONLY THE SAME TYPE.

CAUTION

THE ▭ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT. PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.



(COMPONENT SIDE)

POWER1 P.C. BOARD (VEP81221B)

FOIL SIDE

REF	LOC
IC1001	C3
IC1101	C4
IC1102	C4
IC1103	C3
IC1201	D2
IC1202	D3
IC1203	D4
IC1204	D4
IC1205	D1
P1103	A1
P1201	F2
P1202	F3
Q1001	B1
Q1002	C2
Q1003	C2
Q1004	C3
Q1101	B4
Q1102	B3
Q1103	B2
Q1201	D4
Q1202	D4
Q1203	D4
Q1204	B3
QR1001	C3
QR1002	C3
QR1101	B4
QR1102	C4
QR1103	C4
QR1104	C4
QR1105	C4
QR1201	D3
QR1202	D3
QR1203	F4
QR1204	F4
QR1205	F4
QR1206	F4
QR1207	F4

JAPAN ONLY

⚠ 警 告

感電注意

AC100V の加わっている活電部（充電部、活電部）に直接触れないでください。

+ 感電ややけどの可能性があります。

① ⚠ 警 告 ⚠ 印の部品は安全上重要な部品です。交換するときは、安全及び性能維持のため必ず指定の部品をご使用ください。

② ▭ 内は充電部です。AC100Vが加わっておりますので点検、修理のときは感電しないよう充分ご注意ください。

③ 部品交換時には、電源プラグをぬいてから行ってください。

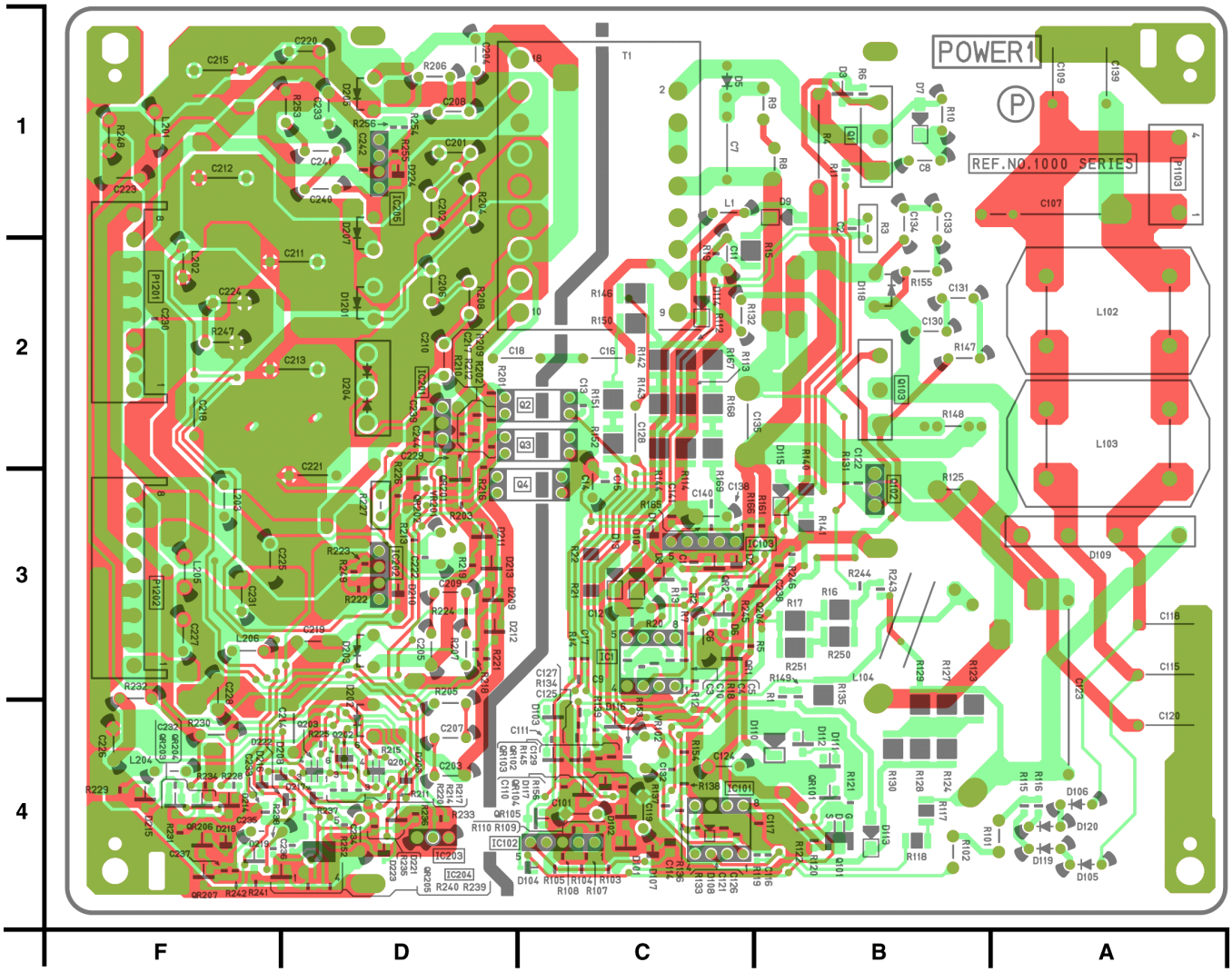
④ 一次側（充電部）の電圧・波形は、一次側アースを基準に測定してください。

⑤ 部品品番は、部品価格表で確認の上交換ください。

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS. USE ONLY THE SAME TYPE.

CAUTION

THE ▭ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT. PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.



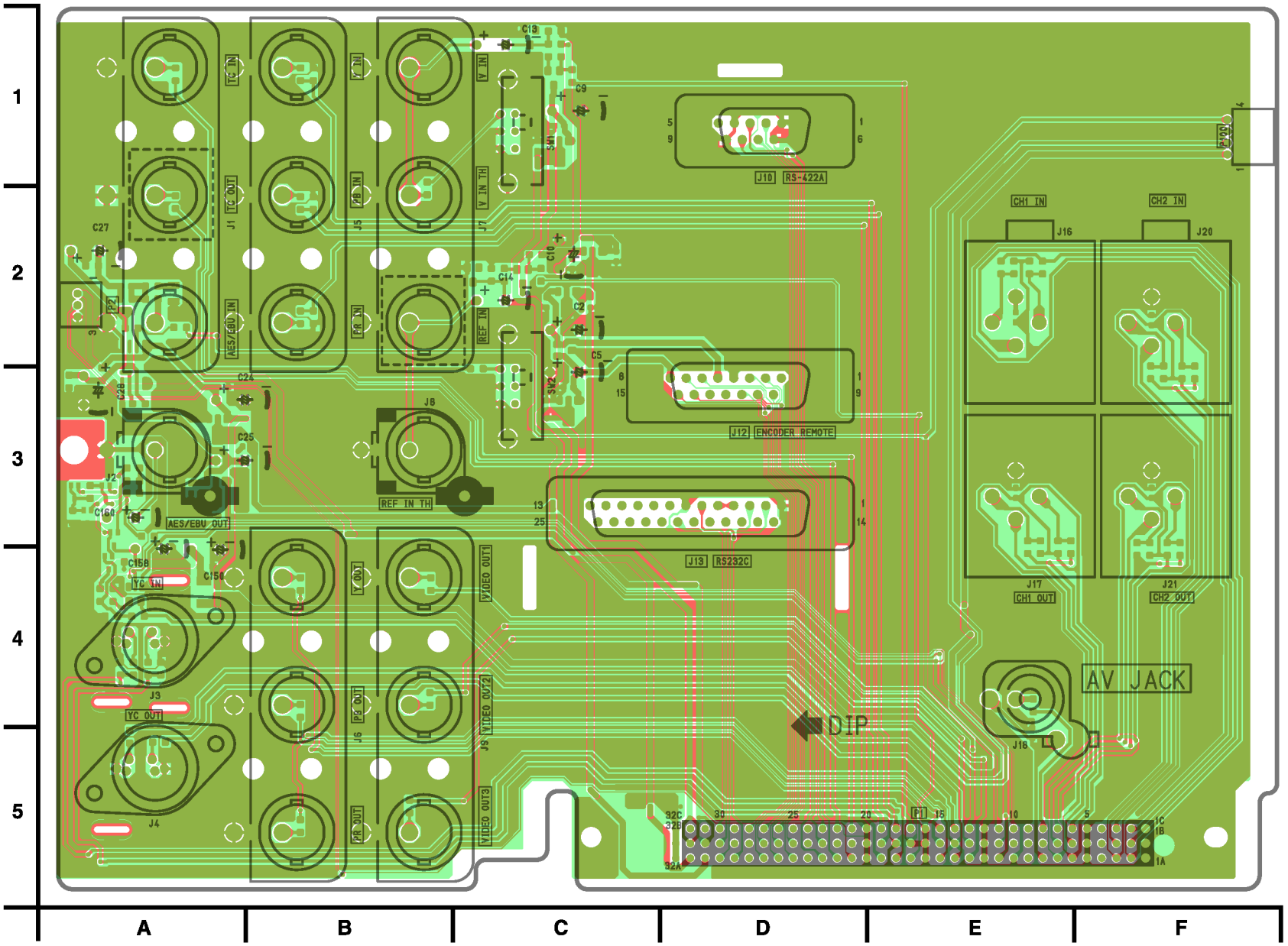
(FOIL SIDE)

AV JACK P.C. BOARD (VEP80C13A)

COMPONENT SIDE

REF	LOC
P1	E5
P2	A2
P100	F1

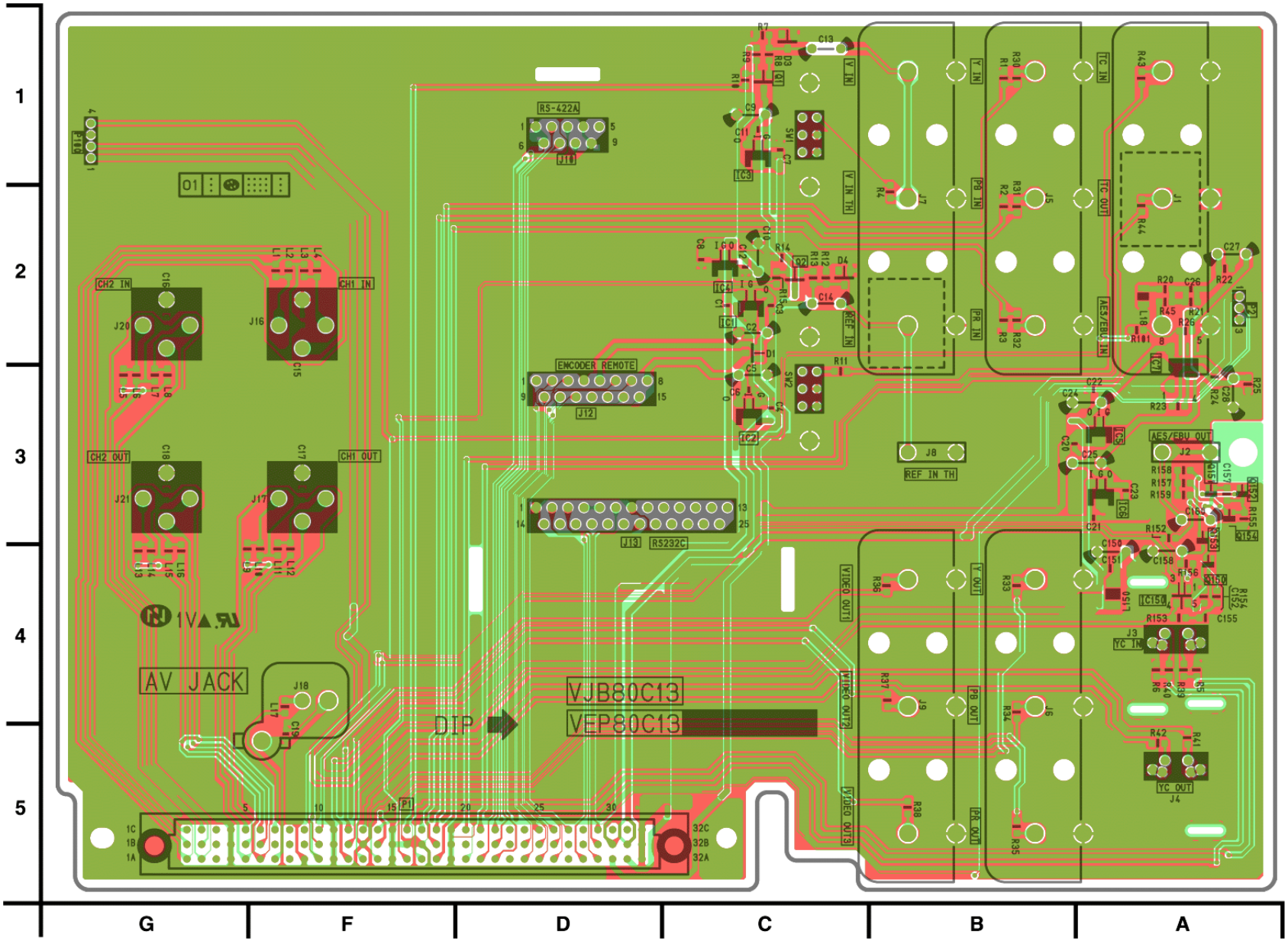
CBA-23



(COMPONENT SIDE)

AV JACK P.C. BOARD (VEP80C13A)

CBA-24



(FOIL SIDE)

FOIL SIDE

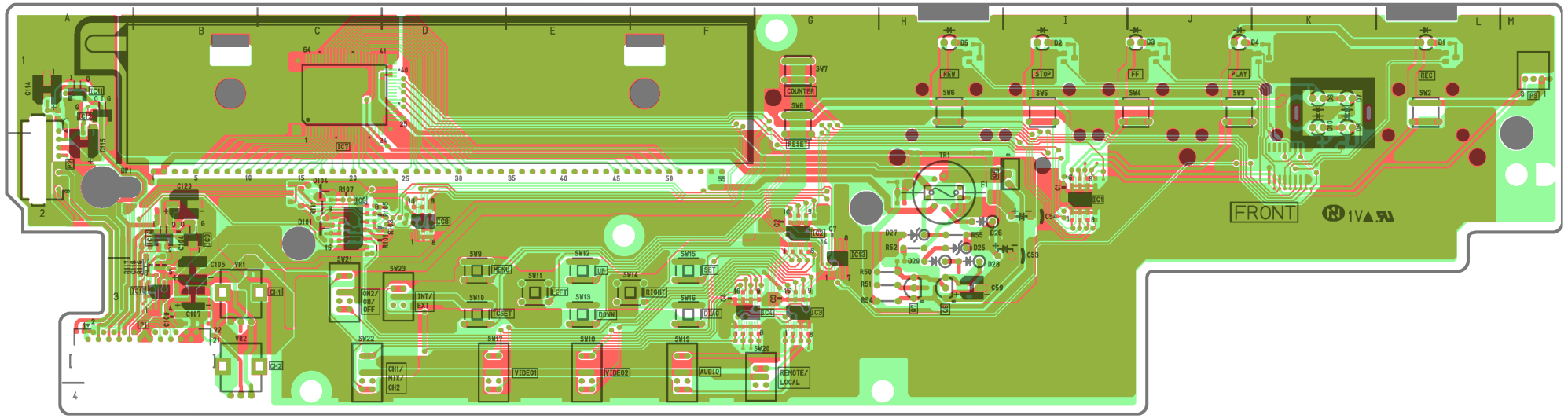
REF	LOC
IC1	C2
IC2	C3
IC3	C1
IC4	C2
IC5	A3
IC6	A3
IC7	A2
IC150	A4
P1	F5
P2	A2
P100	G1
Q1	C1
Q2	C2
Q150	A4
Q151	A3
Q152	A3
Q153	A3
Q154	A3

FRONT P.C. BOARD (VEP86315A)

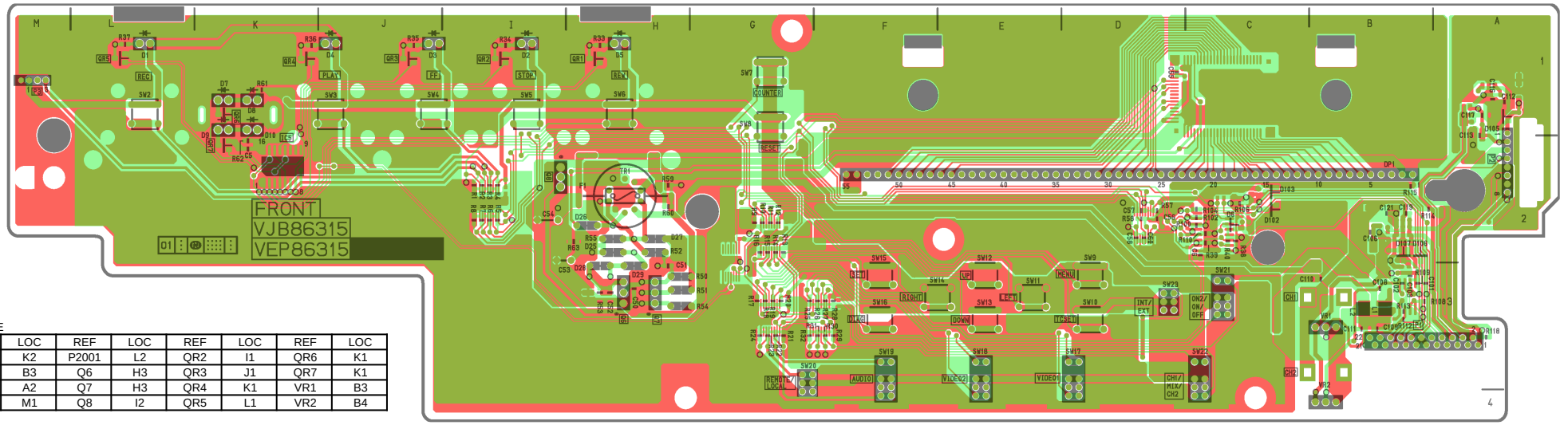
COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1	I1	IC6	C2	IC10	B3	IC14	B2	P2001	L2	VR1	B3
IC2	G2	IC7	C2	IC11	A1	P1	B3	Q6	H3	VR2	B3
IC3	G3	IC8	D2	IC12	A1	P2	A2	Q7	H3		
IC4	F3	IC9	B2	IC13	G2	P3	M1	Q8	I2		

CBA-25



(COMPONENT SIDE)

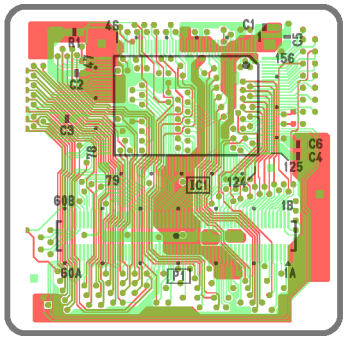


FOIL SIDE

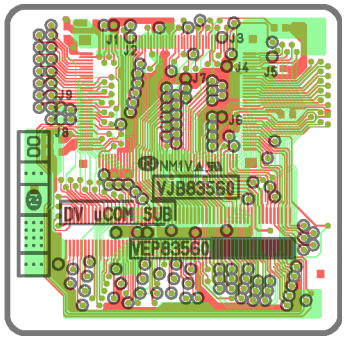
REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC5	K2	P2001	L2	QR2	I1	QR6	K1
P1	B3	Q6	H3	QR3	J1	QR7	K1
P2	A2	Q7	H3	QR4	K1	VR1	B3
P3	M1	Q8	I2	QR5	L1	VR2	B4

(FOIL SIDE)

DV u COM P.C. BOARD (VEP83560A)



(COMPONENT SIDE)



(FOIL SIDE)

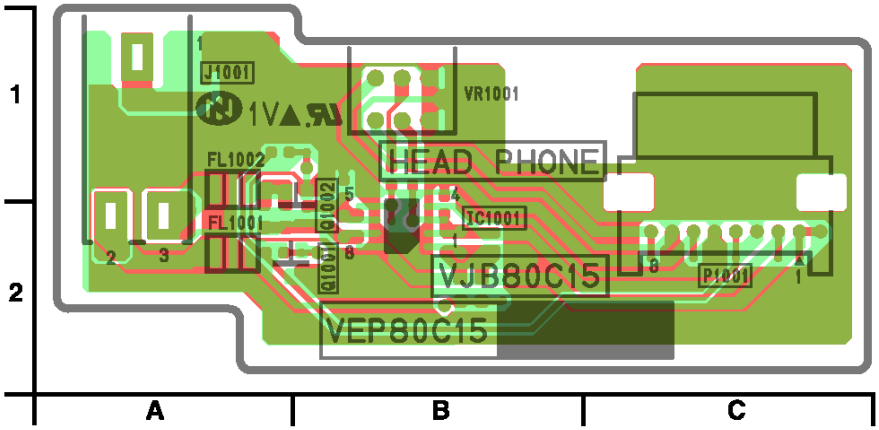
HP P.C. BOARD (VEP80C15A)

COMPONENT SIDE

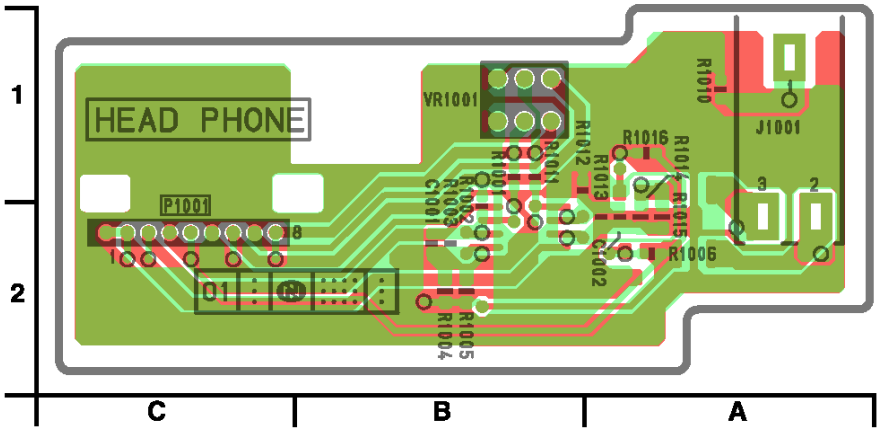
REF	LOC
IC1001	B2
Q1001	A2
Q1002	A2
VR1001	B1
P1001	C2

FOIL SIDE

REF	LOC
P1001	C2
VR1001	B1



(COMPONENT SIDE)

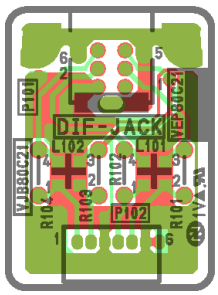


(FOIL SIDE)

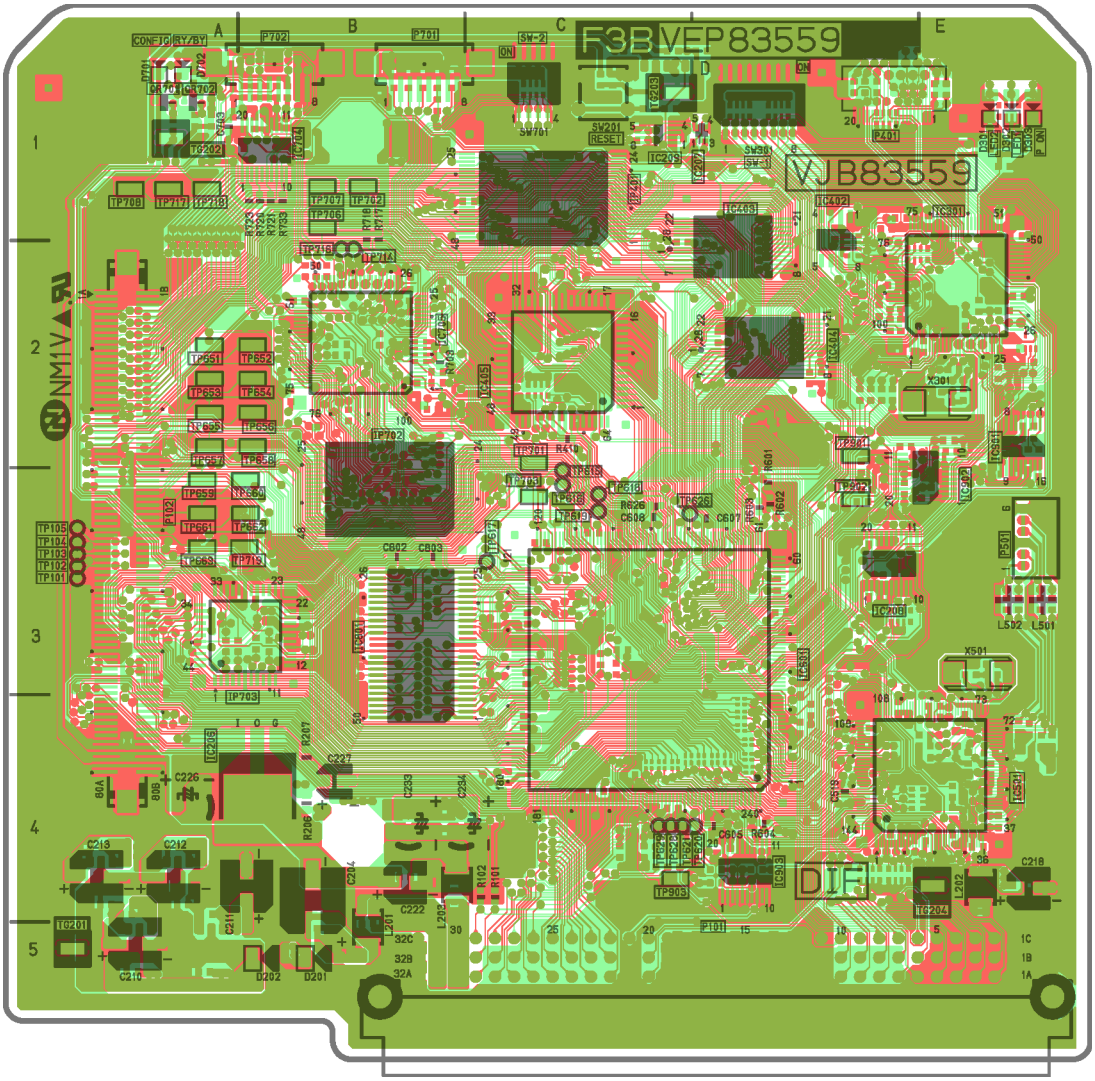
F3B DIF / DIF JACK P.C.BOARD
(VEP83559A / VEP80C21A) (AJ-YAD455P)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC206	A4	IC902	E3	SW301	D1	TP619	C3	TP660	B3	TP901	D2
IC207	D1	IC903	D4	SW701	C1	TP620	D4	TP661	A3	TP902	D3
IC208	D3	IP401	C1	TG201	A5	TP621	C4	TP662	B3	TP903	C4
IC209	C1	IP702	B2	TG202	A1	TP626	C3	TP663	A3		
IC301	E1	IP703	B3	TG203	C1	TP628	C4	TP701	C2		
IC402	D1	P101	D5	TG204	E4	TP629	C4	TP702	B1		
IC403	D1	P102	A3	TP101	A3	TP651	A2	TP703	C3		
IC404	D2	P401	D1	TP102	A3	TP652	B2	TP706	B1		
IC405	C2	P501	E3	TP103	A3	TP653	A2	TP707	B1		
IC501	E4	P701	B1	TP104	A3	TP654	B2	TP708	A1		
IC601	C3	P702	B1	TP105	A3	TP655	A2	TP714	B2		
IC704	B1	QR701	A1	TP615	C3	TP656	B2	TP716	B2		
IC705	B2	QR702	A1	TP616	C3	TP657	A2	TP717	A1		
IC801	B3	SW-2	C1	TP617	C3	TP658	B2	TP718	A1		
IC901	E2	SW201	C1	TP618	C3	TP659	A3	TP719	B3		



(COMPONENT SIDE)

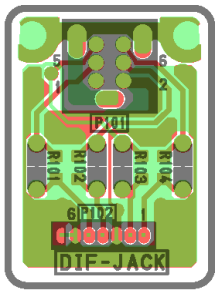


(COMPONENT SIDE)

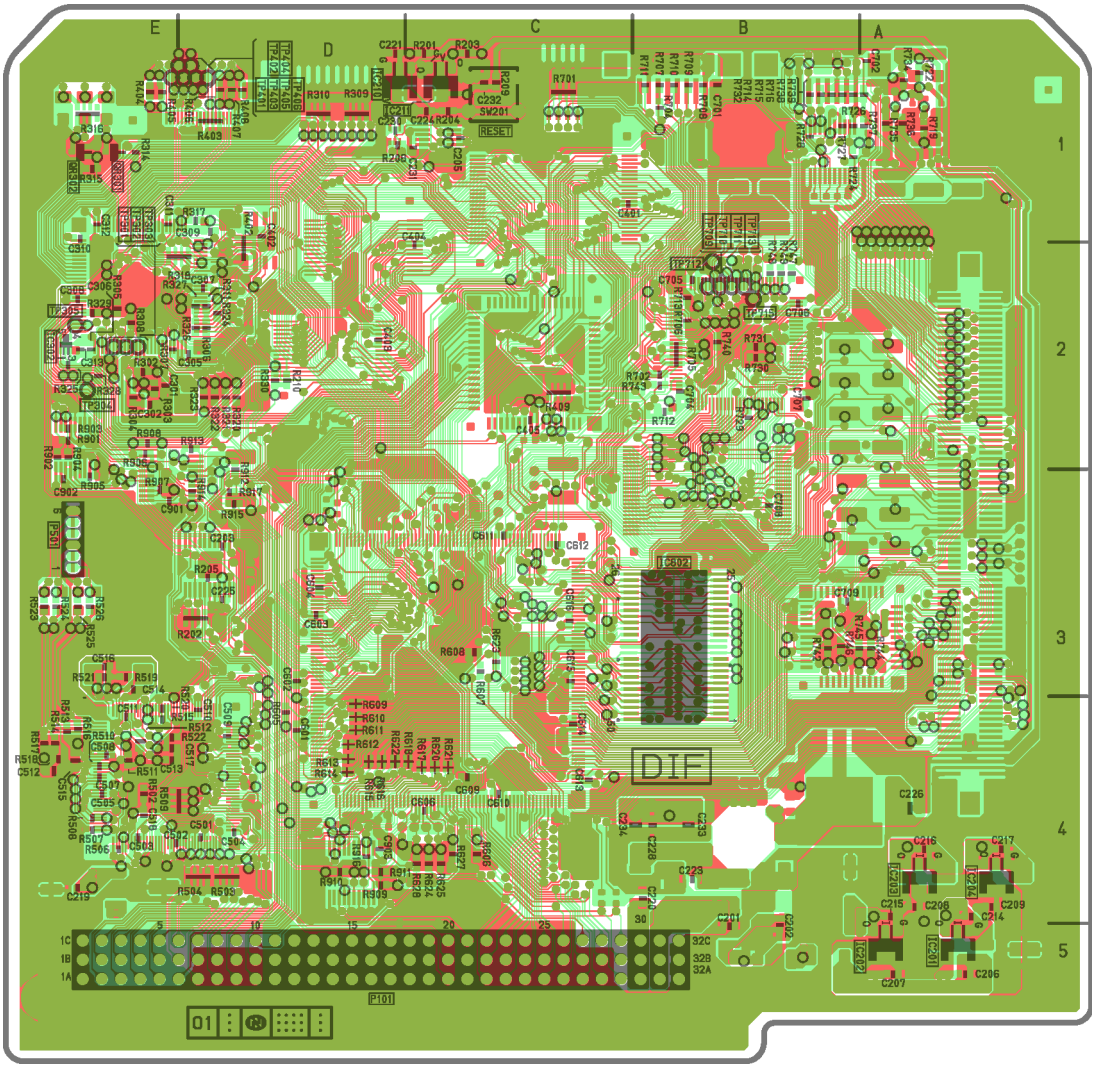
F3B DIF / DIF JACK P.C.BOARD
(VEP83559A / VEP80C21A) (AJ-YAD455P)

FOIL SIDE

REF	LOC	REF	LOC
IC201	A5	TP303	E1
IC202	A5	TP304	E2
IC203	A4	TP305	E2
IC204	A4	TP401	D1
IC210	D1	TP402	D1
IC211	D1	TP403	D1
IC302	E2	TP404	D1
IC802	B3	TP405	D1
P101	D5	TP406	D1
P501	E3	TP709	B2
QR301	E1	TP710	B2
QR302	E1	TP711	B2
SW201	C1	TP712	B2
TP301	E1	TP713	B2
TP302	E1	TP715	B2



(FOIL SIDE)



(FOIL SIDE)

ORDER NO. BSD0109M622

Service Manual

DVCPRO

Sec. 1 *Service Information*
Sec. 2 *Disassembly Procedures*
Sec. 3 *Electrical Adjustment*
Sec. 4 *Block Diagrams*
Sec. 5 *Schematic Diagrams*
Sec. 6 *Circuit Board Diagrams*
Sec. 7 *Exploded Views & Replacement Parts List*

Refer to

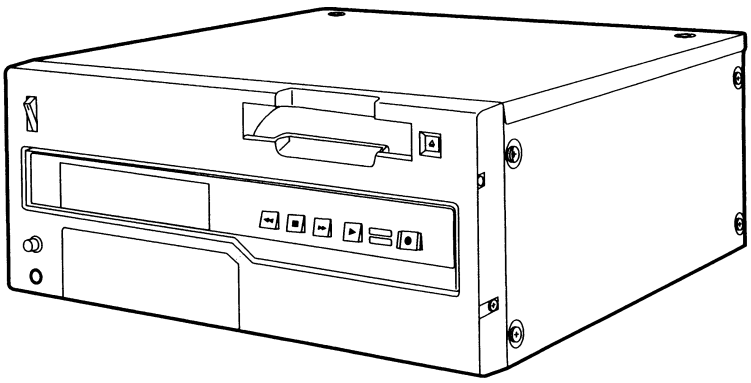
BSD0103M901
(CD-ROM No.11/BSD01051K0X)
DVCPRO MECHANISM
Version 2
for Mechanical Adjustment.

Digital Video Cassette Recorder
AJ-D455E/MC

Component Serial Interface Board
AJ-YA455P

Digital Video Interface Board
AJ-YAD455P

Cassette Adapter
AJ-CS455P



Panasonic

© 2001 Matsushita Electric Industrial Co., Ltd. All rights reserved.
Unauthorized copying and distribution is a violation of law.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

AJ-D455E/MC

Specifications

GENERAL

Power supply: AC 220 – 240 V, 50 – 60 Hz
Power consumption: 95 W

▭ is the safety information.

Operating ambient temperature: 5°C to 40°C
Operating ambient humidity: 10% to 90% (no condensation)
Weight: 14.3 kg
Dimensions (W × H × D): 424 × 175.2 × 415 mm
Recording format: DVCPRO format/DV format
Recording video signals: 625i
Recording audio signals: 48 kHz, 16 bits, 2 channels (DVCPRO)
Recording tracks: Digital video/audio; helical track
Time code; Recorded in sub-code area
Digital audio; 2 channels
Cue Track; 1 track
Control (CTL); 1 track
Tape speed: 33.854 mm/sec
Recording time: 126 minutes (with AJ-P126LP)
66 minutes (with AJ-P66MP)
Tape: 1/4-inch thin magnetic layer metal tape
FF/REW time: Less than 3 min (with AJ-P126LP)
Less than 2 min (with AJ-P66MP)
Editing accuracy: ±0 frame (using time code)
Tape timer accuracy: ±1 frame (using continuous CTL signal)
Servo lock time: Less than 0.5 sec. (colour framing/standby ON)

VIDEO

(Digital video)

Sampling frequencies: Y; 13.5 MHz/P_B, P_R; 3.375 MHz
Quantizing: 8 bits
Video compression system: DV-based compression (SMPTE314M)
Video compression ratio: 1/5 (DVCPRO)
Error correction: Reed-Solomon product code
Video recording/playback bit rate: 25 Mbps (DVCPRO)
Samples × number of effective lines: 720 × 576/frame (DVCPRO)

(Digital IN/Analogue component OUT)

Video bandwidth: Y; 25 Hz to 5.5 MHz (±1.0 dB)
P_B, P_R; 25 Hz to 1.3 MHz (±1.0 dB)
S/N ratio: Better than 56 dB
K factor: Less than 2%

(Analogue component IN/Analogue component OUT)

Video bandwidth: Y; 25 Hz to 5.5 MHz (–1.5 dB to +1.0 dB)
P_B, P_R; 25 Hz to 1.3 MHz (–2.0 dB to +1.0 dB)
S/N ratio: Better than 55 dB
K factor: Less than 2%

(Analogue composite IN/Analogue composite OUT)

Video bandwidth: Y; 25 Hz to 5.5 MHz (–3 dB to +1.5 dB)
DG: Less than 4%
DP: Less than 3°
Y/C delay: Better than 20 ns
K factor: Less than 3%
S/N ratio: Better than 48 dB

(Video input connector)

Analogue component input: BNC×3 (Y, P_B, P_R)
Y; 1.0 Vp-p, 75Ω
P_B, P_R; 0.7 Vp-p, 75Ω (100% colour bar)
Analogue composite input: BNC×2, loop-through, 75Ω on/off
S1 VIDEO input: S terminal (4-pin)×1
Y; 1.0 Vp-p, 75Ω
C; 0.3 Vp-p (burst), 75Ω
Reference input: Analogue composite
BNC×2, loop-through, 75Ω on/off
Serial digital component input (option): Complies with ITU-R BT.656-3 standard, BNC×2, active through

(Video output connector)

Analogue component output: BNC×3 (Y, P_B, P_R)
Y; 1.0 Vp-p, 75Ω
P_B, P_R; 0.7 Vp-p, 75Ω (100% colour bar)
Analogue composite output: BNC×3
Video1/video2/video3 (superimpose on/off)
S1 VIDEO output: S terminal (4-pin)×1
Y; 1.0 Vp-p, 75Ω
C; 0.3 Vp-p (burst), 75Ω
Serial digital component output (option): Complies with ITU-R BT.656-3 standard, BNC×3

(Video output signals adjustment)

Video gain: ±3 dB
Chroma gain: ±3 dB
Chroma phase: ±30°
Black level: ±100 mV
Sync phase: ±15 µs
SC phase: ±180°

AUDIO

(Digital audio)

Sampling frequencies: 48 kHz (synchronized with video signal)
Quantizing: 16 bits
Frequency response: 20 Hz to 20 kHz (±1.0 dB) (at reference level)
Dynamic range: Better than 85 dB (1 kHz, emphasis OFF, "A" weighted)
Distortion: Less than 0.1% (1 kHz, emphasis OFF, standard level)
Crosstalk: Less than –80 dB (1 kHz, between 2 channels)
Wow & flutter: Below measurable limits
Headroom: 18 dB
De-emphasis: T1=50 µs/T2=15 µs (on/off automatic)

(Audio input connector)

Analogue input (CH1/CH2): XLR×2, 600Ω/high impedance selectable, +4/0/–20/–60 dBu
Digital input (CH1/CH2): BNC×1, AES/EBU format
Serial digital input (option): Complies with ITU-R BT.656-3 standard (BNC, 75Ω)

(Audio output connector)

Analogue output (CH1/CH2): XLR×2, low impedance, +4/0/–20 dBu
Digital output (CH1/CH2): BNC×1, AES/EBU format
Serial digital output (option): Complies with ITU-R BT.656-3 standard (BNC, 75Ω)
Monitor output: Phono×1, 600Ω, –8 dBV
Headphones: Variable level, 6.35 mm phone, 8Ω

Other input/output connector

Time code input: BNC×1, 0.5 Vp-p to 8 Vp-p, 10 kΩ
Time code output: BNC×1, 2.0 Vp-p ±0.5 Vp-p, low impedance
RS-422A input/output: D-sub 9-pin, RS-422A interface
RS-232C: D-sub 25-pin, RS-232C interface
Encoder remote: D-sub 15-pin
Digital video interface input/output (option): Compliant with IEEE1394-1995 standard, 6 pins × 1

Weight and dimensions when shown are approximately.
Specifications are subject to change without notice.

AJ-YA455P

Specifications

Video input:
BNC ×2, active through
Video output:
BNC ×3
Weight:
0.21 lb. (94 g) (board),
0.2 lb. (90 g) (connector board)
Dimensions (W×H):
5″×5-1/2″ (127×140 mm) (board),
1-5/8″×2-3/4″ (42×71 mm) (connector board)

AJ-YAD455P

Specifications

■ **Digital video interface board**
Dimensions (W×H×D):
5-11/16″×5-9/16″×9/16″ (143×140×13 mm)
Weight:
0.246 lb (112 g)

■ **Input/output facility**
Connector:
6-pin type
Transfer rate:
100 Mbps
Transfer data:
Compliant with IEC-61883/FDS (Part-1, 2)
Control commands:
Compliant with AV/C command set

Accessories

Connector board (×1)
Connecting cable (×1)

SAFETY PRECAUTIONS

GENERAL GUIDELINES

1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been over-heated or damaged by the short circuit.
2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohm meter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. The resistance value must be more than 5MΩ.

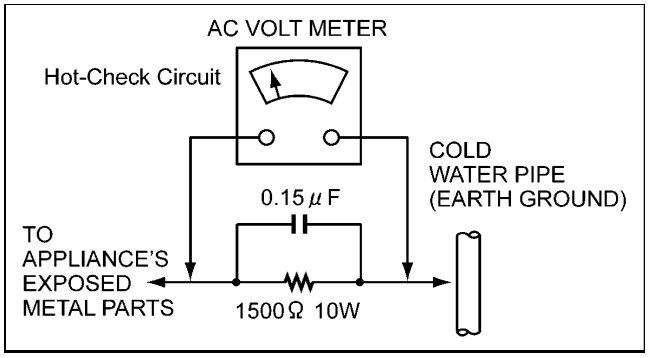


Figure1

LEAKAGE CURRENT HOT CHECK (See Figure 1)

1. Plug the AC cord directly into the AC outlet.
   Do not use an isolation transformer for this check.
2. Connect a 1.5KΩ, 10W resistor, in parallel with a 0.15μ F capacitor, between each exposed metallic part on the set an a good earth ground such as a water pipe, as shown in Figure1.
3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
4. Check each exposed metallic part, and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet repeat each of the above measurements.
6. The potential at any point should not exceed 0.15 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 0.1 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically sensitive (ED) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground.
   Alternatively, obtain and wear a commercially available discharging wrist trap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static solder removal device classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it.
   (most replacement ES devices are package with leads electrically shorted together by conductive foam, alminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION : Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

X-RADIATION

WARNING

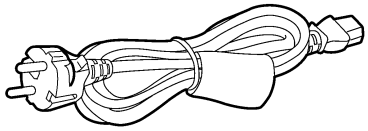
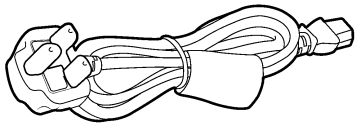
1. The potential source of X-radiation in EVF sets is the High Voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that jig is capable of handling 10kV without causing X-Radiation.

Note : It is important to use an accurate periodically calibrated high voltage meter.

3. Measure the High Voltage. The meter (electric type) reading should indicate 2.5kV,±0.15kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure. To prevent an X-Radiation possibility, it is essential to use the specified picture tube.

Caution for AC Mains Lead

FOR YOUR SAFETY PLEASE READ THE FOLLOWING TEXT CAREFULLY.
This product is equipped with 2 types of AC mains cable. One is for continental Europe, etc. and the other one is only for U.K.
Appropriate mains cable must be used in each local area, since the other type of mains cable is not suitable.

FOR CONTINENTAL EUROPE, ETC. Not to be used in the U.K. 	**FOR U.K. ONLY** If the plug supplied is not suitable for your socket outlet, it should be cut off and appropriate one fitted. 

FOR U.K. ONLY

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 13 amp fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 13 amps and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark or the BSI mark on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local Panasonic Dealer.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMP SOCKET.

If a new plug is to be fitted please observe the wiring code as shown below.
If in any doubt please consult a qualified electrician.
WARNING: THIS APPLIANCE MUST BE EARTHED.
IMPORTANT: The wires in this mains lead are coloured in accordance with the following code:

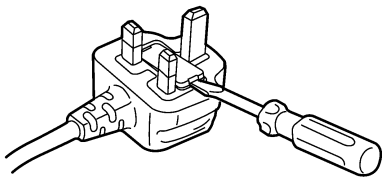
Green-and-Yellow:	Earth
Blue:	Neutral
Brown:	Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

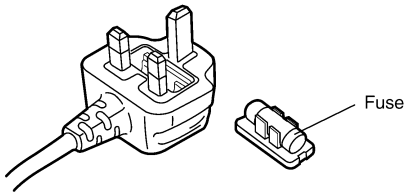
- The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked with the letter E or by the Earth symbol ⏚ or coloured GREEN or GREEN-AND-YELLOW.
- The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.
- The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

How to replace the fuse

1. Open the fuse compartment with a screwdriver.



2. Replace the fuse.



IMPORTANT

"Unauthorized recording of copyrighted television programmes, video tapes and other materials may infringe the right of copyright owners and be contrary to copyright laws."

THIS APPARATUS MUST BE EARTHED

To ensure safe operation the three-pin plug must be inserted only into a standard three-pin power point which is effectively earthed through the normal house-hold wiring.

Extension cords used with the equipment must be three-core and be correctly wired to provide connection to earth. Wrongly wired extension cords are a major cause of fatalities.

The fact that the equipment operates satisfactorily does not imply that the power point is earthed and that the installation is completely safe. For your safety, if in any doubt about the effective earthing of the power point, consult a qualified electrician.

DO NOT REMOVE PANEL COVER BY UNSCREWING

To reduce the risk of electric shock, do not remove cover. No user serviceable parts inside. And do not insert fingers or any other objects into the video cassette holder.

WARNING:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, KEEP THIS EQUIPMENT AWAY FROM ALL LIQUIDS-USE AND STORE ONLY IN LOCATIONS WHICH ARE NOT EXPOSED TO THE RISK OF DRIPPING OR SPLASHING LIQUIDS, AND DO NOT PLACE ANY LIQUID CONTAINERS ON TOP OF THE EQUIPMENT.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

CAUTION:

TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, REFER MOUNTING OF THE OPTIONAL BOARD TO QUALIFIED SERVICE PERSONNEL.

CAUTION:

Do not install or place this unit in a bookcase, built-in cabinet or another confined space in order to maintain adequate ventilation. Ensure that curtains and any other materials do not obstruct the ventilation to prevent risk of electric shock or fire hazard due to overheating.

CAUTION:

TO REDUCE THE RISK OF FIRE OF SHOCK HAZARD, REFER CHANGE OF SWITCH SETTING INSIDE THE UNIT TO AUTHORIZED SERVICE PERSONNEL.

CAUTION:

Even when POWER switch is in the Off position, a small current flows the filter circuit.

▭ is the safety information.

Operating precaution

Operation near any appliance which generates strong magnetic fields may give rise to noise in the video and audio signals. If this should be the case, deal with the situation by, for instance, moving the source of the magnetic fields away from the unit before operation.

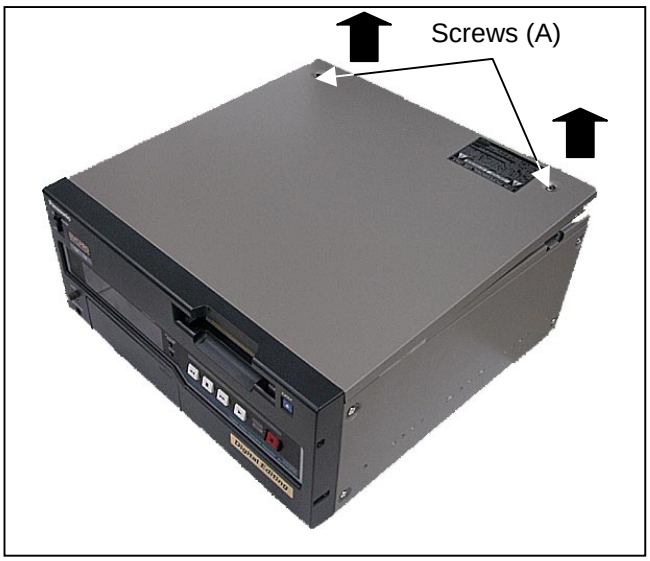
Panasonic

Printed in Japan
FCD0109NCKK80/E362/E363

DISASSEMBLE PROCEDURES

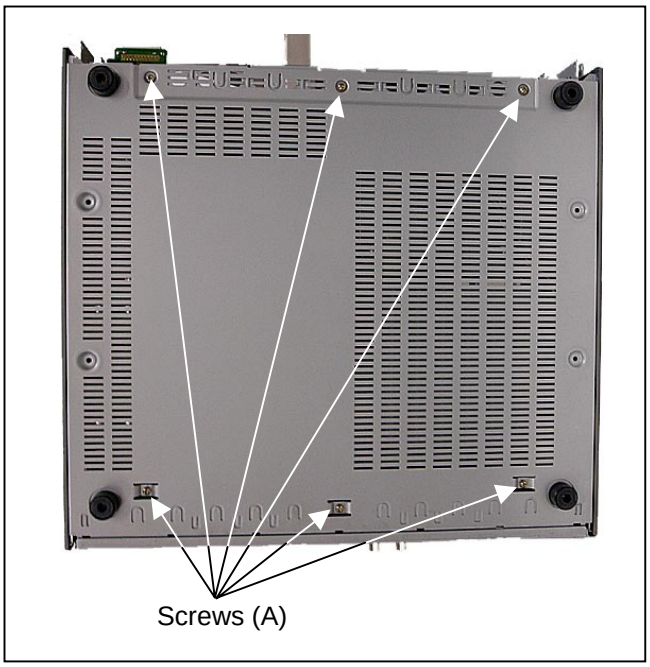
1-1. Removal of Top Panel

1. Loosen s screws (A) and remove the Top Panel.



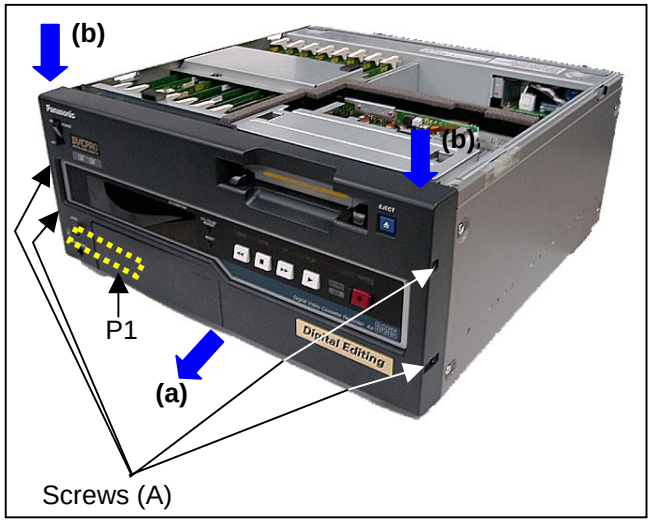
1-2. Removal of Bottom Panel

1. Unscrew the 6 screws (A) and remove the Bottom Panel.



1-3. Removal of Front Panel

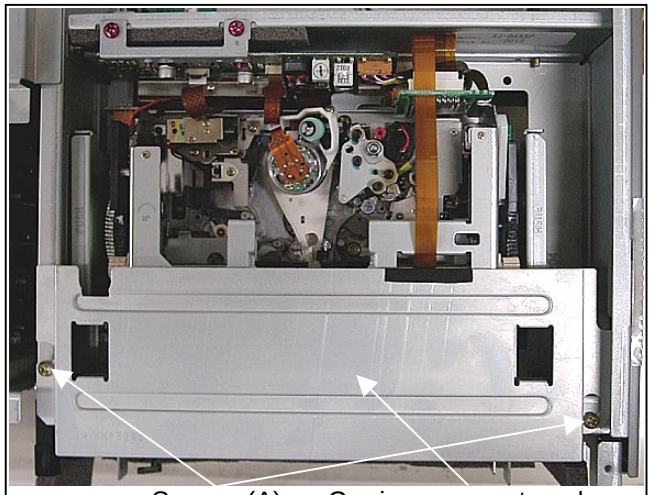
1. Unscrew the 4 screws (A) and remove the Front Panel.



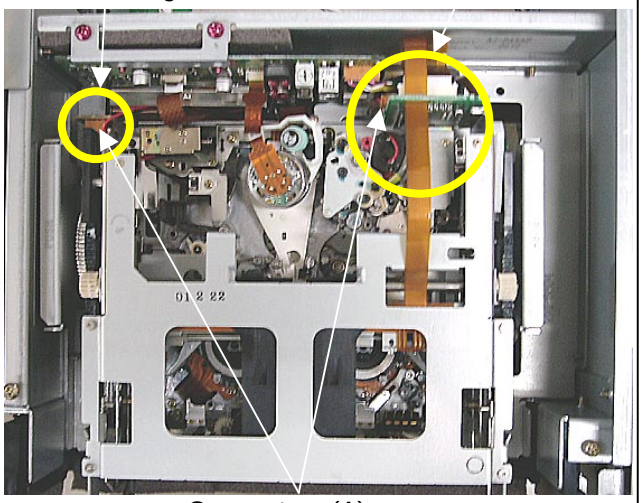
Notes:1. When remove the Front Panel, slightly pull the Front panel for direction in arrow **(a)** (disconnect a connector P1) and then remove the Front Panel for direction in arrow **(b)**.
2. After installation of Front Panel, confirm that the Blinder Panel is moved up and down smoothly by hand.
3. Check the connector has been connected securely.

1-4. Removal of Front Loading Unit

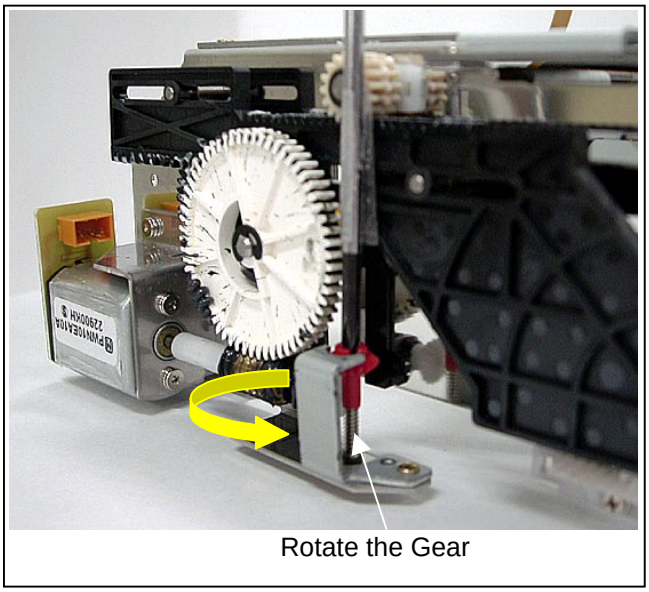
1. Remove the Front Panel. (Refer to item 1-3.)
2. Loosen 2 screws (A) and remove the Carriage support angle.



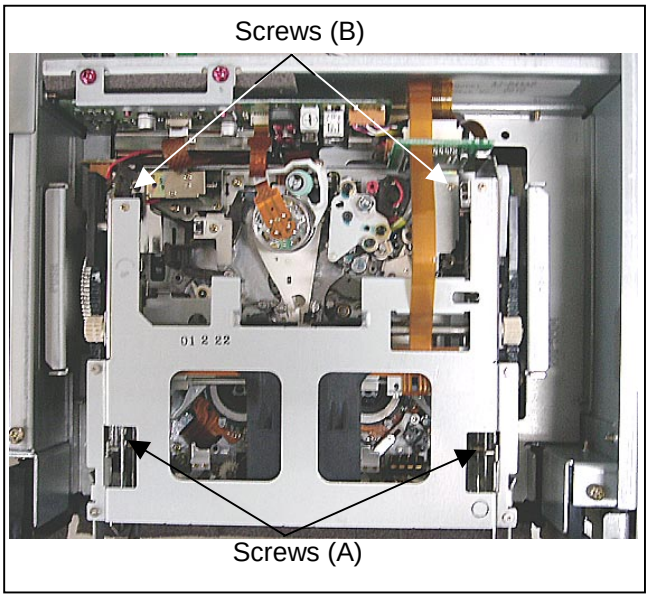
3. Disconnect 2 connectors (A) at Front Loading motor Board and the Interconnection Board.



4. Push and rotate the red plastic gear in front of the Front loading motor counterclockwise until the screw (A) which is used to fix the Front Loading Unit can be seen.

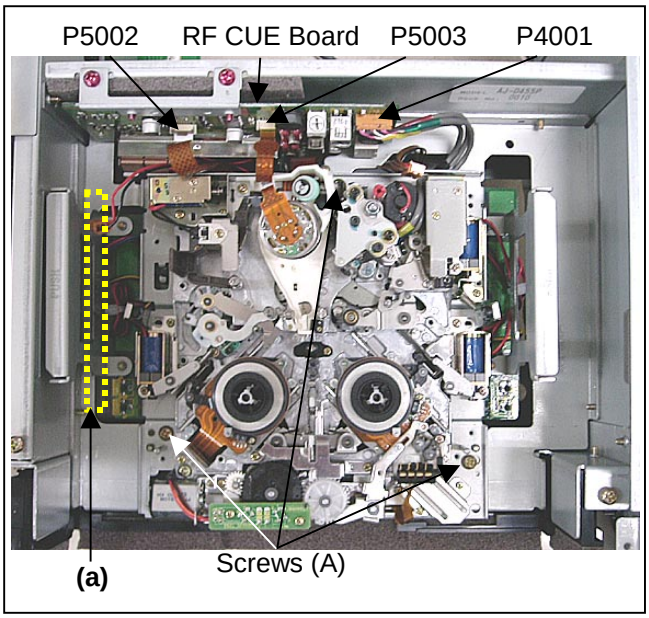


5. Unscrew the 4 screws (A) and (B), then remove the Front Loading Unit.



1-5. Removal of Mechanism Unit

1. Remove the Front Loading Unit. (Refer to item 1-4.)
2. Disconnect 3 connectors (P4001, P5002, P5003) which are connect to RF CUE Board.
3. Unscrew the 3 screws (A) and remove the Mechanism Unit.

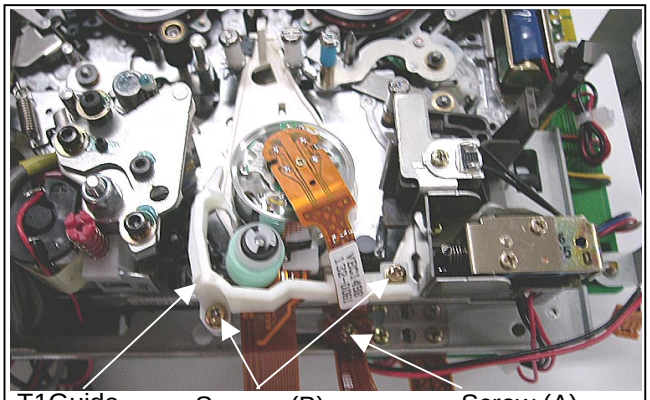


Notes:

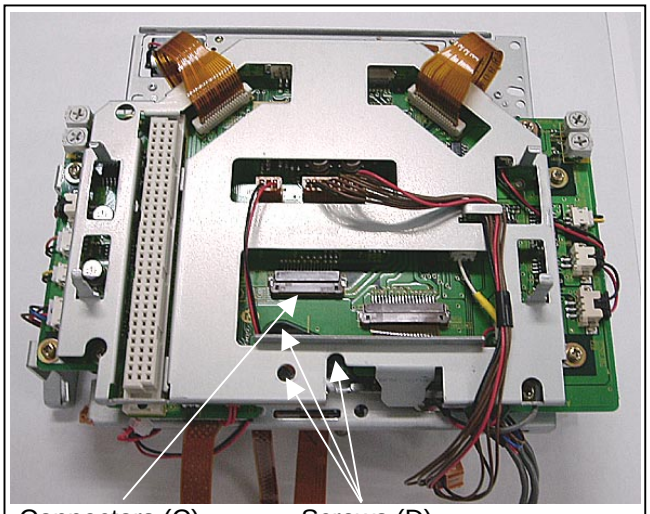
1. When remove the Mechanism Unit, the connector **(a)** which is connected to the Mother Board and Mechanism Unit is disconnected.
2. Check the connector has been connected securely.

1-6. Removal of Cylinder Unit

1. Remove the Mechanism Unit.
   Refer to item 1-5.
2. Unscrew a screw (A).
3. Unscrew the 2 screws (B) and remove the T1 Guide.

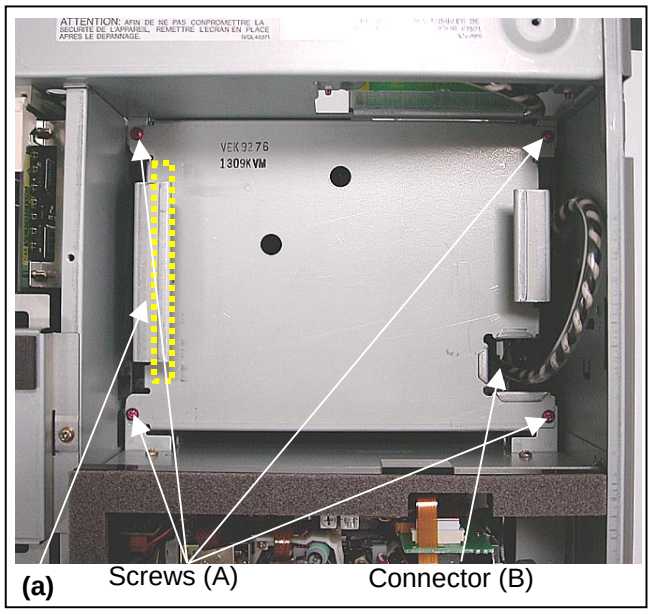


4. Disconnect a connector (C) which is connected to the Mech. I/F Board on the Mechanism bottom side.
5. Unscrew the 3 screws (D) which have spring, then remove the Cylinder Unit without touching any Mechanism parts.



1-7. Removal of Power Supply Unit

1. Unscrew the 4 screws (A) and lift-up the Power Supply Unit.
2. Disconnect a connector (B) and remove the Power Supply Unit.

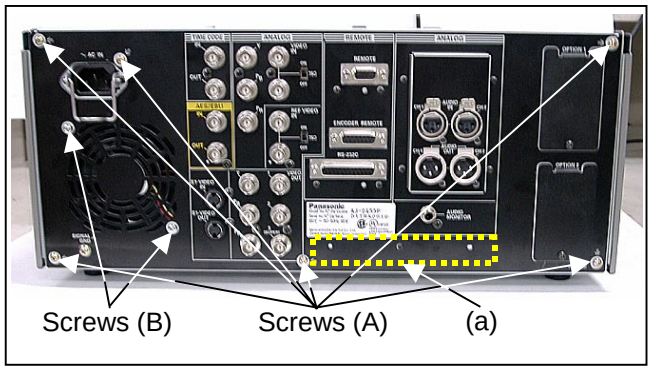


Notes:

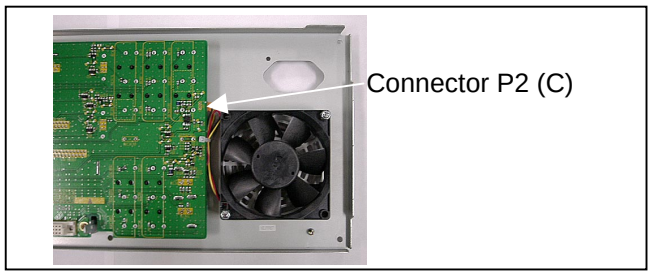
1. When remove the Power Supply Unit, the connector **(a)** which is connected to the Mother Board and Power Supply Unit is disconnected.
2. Check the connector has been connected securely.

1-8. Removal of Fan Motor

1. Unscrew the 6 screws (A) and remove the Rear Jack Panel.



2. Disconnect a connector P2 (C)
3. Unscrew the 2 screws (B) and remove the Fan Motor.



Notes:

1. When remove the Rear Jack Panel, the connector **(a)** which is connected to the Mother Board and Rear Jack Panel is disconnected.
2. Check the connector has been connected securely.

ELECTRICAL REPLACEMENT PARTS LIST (AJ-D455E/MC)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP84374A	F1 AUDIO P.C.BOARD0	1	(RTL)
■ E2	VEP83557B	F2 V OUT P.C.BOARD0	1	(RTL)
■ E4	VEP83554B	F4 D PROC P.C.BOARD0	1	(RTL)
■ E4-1	VEP83555A	CSP SUB P.C.BOARD	1	(RTL)FOR VEP83554B
■ E4-2	VSI3675B	DV UCOM P.C.BOARD	1	(RTL)FOR VEP83554B
■ E5	VEP83553B	F5 V IN P.C.BOARD0	1	(RTL)
■ E6	VEP86314B	F6 SYSCON P.C.BOARD0	1	(RTL)
■ E7	VEP82238B	F7 SERVO P.C.BOARD0	1	(RTL)
■ E8	VEP85196A	F8 RF EQ P.C.BOARD0	1	(RTL)
■ E9	VEP85197A	RF CUE P.C.BOARD0	1	(RTL)
■ E10	VEP80C14A	MOTHER P.C.BOARD0	1	(RTL)
■ E11	VEP82239A	MECHA I/F P.C.BOARD0	1	(RTL)
■ E12	VEP82240A	MECHA I/F 2 P.C.BOARD0	1	(RTL)
■ E13	VEP81221B	POWER 1 P.C.BOARD0	1	(RTL)
■ E14	VEP81222A	POWER 2 P.C.BOARD0	1	(RTL)
■ E15	VEP80C13A	AV JACK P.C.BOARD0	1	(RTL)
■ E16	VEP86315A	FRONT P.C.BOARD0	1	(RTL)
■ E17	VEP80C15A	HEAD PHONE P.C.BOARD0	1	(RTL)
■ E18	VEP80C16A	EJECT P.C.BOARD0	1	(RTL)
■ E19	VEP80856A	CARRIGE P.C.BOARD0	1	(RTL)
■ E1	VEP84374A	F1 AUDIO P.C.BOARD0	1	(RTL)
C4102,03	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4104-07	ECEA1HGE330	E.CAPACITOR 50V 33U	4	
C4108,09	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4110,11	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C4124,25	EEVHP1C100	E.CAPACITOR 16V 10U	2	
C4131,32	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	2	
C4133-36	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C4143-46	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	4	
C4200,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4202-05	EEVHB1C220	E.CAPACITOR 16V 22U	4	
C4206	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4207,08	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	2	
C4209,10	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	2	
C4211	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4212,13	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	2	
C4214,15	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	2	
C4216	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4217	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4218	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4220	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4221,22	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4223	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4224-27	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C4228-30	EEVHB1C220	E.CAPACITOR 16V 22U	3	
C4231	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4235-38	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C4239,40	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C4290	ECKF1H101KB	C.CAPACITOR 50V 100P	1	
C4320,21	EEVHP1C100	E.CAPACITOR 16V 10U	2	
C4400	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4401	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4402	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4403	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4404	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C4407-10	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C4411,12	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C4417	EEVHP1C100	E.CAPACITOR 16V 10U	1	
C4419,20	EEVHP1C100	E.CAPACITOR 16V 10U	2	
C4427-30	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C4431,32	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C4506,07	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4508,09	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4510,11	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4512,13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4514,15	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4516-19	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C4520,21	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2	
C4522,23	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	2	
C4524-27	ECA1CHG471	C.CAPACITOR 16V 470U	4	
C4700	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C4701,02	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4703,04	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C4705-11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C4805,06	ECUM1C394KBM	C.CAPACITOR CH 16V 0.39U	2	
C4807	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C4809,10	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4812	ECHU1C104J	P.CAPACITOR 16V 0.1U	1	
C4814	ECHU1C104J	P.CAPACITOR 16V 0.1U	1	
C4816,17	ECHU1C104J	P.CAPACITOR 16V 0.1U	2	
C4819-21	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	3	
C4822	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4823	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C4824	ECST1VY104Z	T.CAPACITOR CH 35V 0.1U	1	
C4825	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4826	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C4827	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4828	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4829-32	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C4833,34	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C4835	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4836	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4837	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4839,40	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4841	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4900	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4903	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4904	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4905	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4906,07	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4908	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4909	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4910	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4911	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4912	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4913	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C4914	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4915	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
D4100-03	MA157	DIODE	4	
D4104	MA716	DIODE	1	
D4400	MA147	DIODE	1	
D4401-03	MA142WK	DIODE	3	
D4404	MA716	DIODE	1	
D4406	MA716	DIODE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D4407	MA142WK	DIODE	1	
D4800	MA716	DIODE	1	
D4900	MA152A	DIODE	1	
D4901	MA157	DIODE	1	
FL4700,01	VLF1466B223	LINE FILTER	2	
IC4100	C0ABBB000184	IC	1	
IC4101	THC4052FT	IC	1	
IC4102,03	C0ABBB000184	IC	2	
IC4104	THC4052FT	IC	1	
IC4105	C0ABBB000184	IC	1	
IC4106	THC4052FT	IC	1	
IC4107,08	C0ABBB000184	IC	2	
IC4109	THC4052FT	IC	1	
IC4110	XC62FP5002P	IC	1	
IC4111	XC62DN5002P	IC	1	
IC4200,01	NJM2100MD	IC	2	
IC4202	NVHC541MTCX	IC	1	
IC4204	C0FBZJ000003	IC	1	
IC4206	XC62FP5002P	IC	1	
IC4207	XC62FP3302P	IC	1	
IC4300	THC4052FT	IC	1	
IC4301	C0ABBB000184	IC	1	
IC4303	THC4052FT	IC	1	
IC4304	C0ABBB000184	IC	1	
IC4400	C0ABBB000184	IC	1	
IC4401	THC4052FT	IC	1	
IC4402	NJM4556AM	IC	1	C0ABBB000042
IC4403	XC62FP5002P	IC	1	
IC4404	XC62DN5002P	IC	1	
IC4407	XC62FP5002P	IC	1	
IC4408	XC62DN5002P	IC	1	
IC4410	NJM4556AM	IC	1	C0ABBB000042
IC4411	C0ABBB000184	IC	1	
IC4500	THC4052FT	IC	1	
IC4502,03	NJM4556AM	IC	2	C0ABBB000042
IC4504	THC4052FT	IC	1	
IC4506,07	NJM4556AM	IC	2	C0ABBB000042
IC4700	NVHC245MTCX	IC	1	
IC4701	EPM3256A1410	IC	1	
IC4800-02	C0ABBB000184	IC	3	
IC4803	TC4W53FU	IC	1	
IC4804	CXA1552M	IC	1	
IC4805	XC62FP5002P	IC	1	
IC4806	XC62DN5002P	IC	1	
IC4807	THC4052FT	IC	1	
IC4808	TC4W53FU	IC	1	
IC4809	NJM78L09UA	IC	1	C0CBAHC00002
IC4900	C0ABBB000184	IC	1	
IC4901	TC4W53FU	IC	1	
IC4902	C0FBZH000011	IC	1	
IC4903	XC62FP3302P	IC	1	
IC4904-06	C0ABBB000184	IC	3	
IC4907	THC4052FT	IC	1	
ID0	VVVSI3568	SOFTWARE	1	
P4001	K1KA96B00032	CONNECTOR (MALE)	1	
P4700	VJP3125B008	CONNECTOR (MALE)	1	
Q4400-03	2SB1219A-R	TRANSISTOR	4	
Q4404	2SD1328	TRANSISTOR	1	
Q4406,07	2SD1328	TRANSISTOR	2	
Q4500	2SD602A-R	TRANSISTOR	1	
Q4501	2SB710A-R	TRANSISTOR	1	
Q4502-07	2SD1328	TRANSISTOR	6	
Q4900-02	2SD1328	TRANSISTOR	3	
QR4201	UN5213	TRANSISTOR-RESISTOR	1	
QR4400,01	UN5213	TRANSISTOR-RESISTOR	2	
R4100,01	ERJ12YJ621	M.RESISTOR CH 1/2W 620	2	
R4102,03	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R4104-07	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4108-11	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	4	
R4112	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4113	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R4114	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R4115	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4116	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R4117	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R4118	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4119	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R4120	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R4121	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4122	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R4123	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R4124	ERJ3GEYJ335	M.RESISTOR CH 1/16W 3.3M	1	
R4125	ERJ3RED470	M.RESISTOR CH 1/16W 47	1	
R4126	ERJ3RBD911	M.RESISTOR CH 1/16W 910	1	
R4127	ERJ3GEYJ335	M.RESISTOR CH 1/16W 3.3M	1	
R4128	ERJ3RED470	M.RESISTOR CH 1/16W 47	1	
R4129	ERJ3RBD911	M.RESISTOR CH 1/16W 910	1	
R4130	ERJ3GEYJ335	M.RESISTOR CH 1/16W 3.3M	1	
R4131	ERJ3RED470	M.RESISTOR CH 1/16W 47	1	
R4132	ERJ3RBD911	M.RESISTOR CH 1/16W 910	1	
R4133	ERJ3GEYJ335	M.RESISTOR CH 1/16W 3.3M	1	
R4134	ERJ3RED470	M.RESISTOR CH 1/16W 47	1	
R4135	ERJ3RBD911	M.RESISTOR CH 1/16W 910	1	
R4136-41	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	6	
R4142,43	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R4144,45	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4146,47	ERJ3RED470	M.RESISTOR CH 1/16W 47	2	
R4148,49	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R4150,51	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R4152,53	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	2	
R4154,55	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R4156,57	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R4158,59	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R4160	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R4161	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R4162	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4163	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4164	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R4165	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R4166	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4167	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4168	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4169	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R4170	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4171	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4172	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R4173	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4174	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4175	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4176,77	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4178,79	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R4180-83	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4186-89	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4200	D1H84704A008	COMBI.R-R	1	
R4201	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4202	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4203,04	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4205,06	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R4207,08	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4209,10	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	2	
R4211,12	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4213-16	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	4	
R4217-20	ERJ3RBD331	M.RESISTOR CH 1/16W 330	4	
R4221	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4222,23	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4224	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4226	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4227	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4228,29	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4231,32	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4233-37	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	5	
R4238-41	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	
R4300,01	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4302	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4304,05	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4308	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4309	ERJ3RBD362	M.RESISTOR CH 1/16W 3.6K	1	
R4310	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R4311	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4312	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4313	ERJ3RBD362	M.RESISTOR CH 1/16W 3.6K	1	
R4314	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R4315	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4324	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4325	ERJ3RBD241	M.RESISTOR CH 1/16W 240	1	
R4326	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R4327	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4328	ERJ3RBD241	M.RESISTOR CH 1/16W 240	1	
R4329	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R4344-46	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	3	
R4364,65	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	2	
R4368,69	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R4372,73	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R4378-80	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R4382,83	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R4386,87	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4392,93	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4396	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4403,04	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4405	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4406	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4407	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R4408	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4409	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4410,11	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4412,13	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R4414	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4415	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4416	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4418	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4419	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4420	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4421	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4424,25	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4427,28	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R4431	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4433	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4437	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R4439	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4440	ERJ3RBD203	M.RESISTOR CH 1/16W 20K	1	
R4442	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4443-45	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
R4447	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R4448	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4451	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4452	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4453	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4454	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4456,57	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4459	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4500,01	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4502,03	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R4504	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R4505	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4506	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4507	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R4508	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R4509	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4510	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4511	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R4512,13	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R4514	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4515	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4516	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R4517	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4518	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4519	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R4520	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4521,22	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4523	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4524,25	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4526,27	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R4530,31	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R4532,33	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4534,35	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	2	
R4536-43	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	8	
R4544-47	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	4	
R4548,49	ERJ3RED150	M.RESISTOR CH 1/16W 15	2	
R4550-53	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	4	
R4554,55	ERJ3RED150	M.RESISTOR CH 1/16W 15	2	
R4556-59	ERJ14YJ220	M.RESISTOR CH 1/4W 22	4	
R4560-63	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	4	
R4564-67	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R4568-73	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	6	
R4700	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4702	D1H84734A008	COMBI.R-R	1	
R4703	EXBV8V102J	COMBI.R-R 1K	1	
R4704	D1H84734A008	COMBI.R-R	1	
R4705,06	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R4707,08	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R4710	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4712,13	D1H84734A008	COMBI.R-R	2	
R4715-17	D1H84734A008	COMBI.R-R	3	
R4803	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4805	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4808	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4809	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4812	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4813	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R4814	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4815	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R4819	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4820	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4823	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	1	
R4825	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4826	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R4827	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4829	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R4832	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4835	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R4836	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4837	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4838	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4839	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4840	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4841	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4842-45	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	
R4847	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4848	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4850	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R4851	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R4852	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4853	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4900	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4901,02	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	2	
R4903	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R4904	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R4905	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4906	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4907,08	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R4909	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R4910	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	1	
R4911	ERJ3GEYJ912	M.RESISTOR CH 1/16W 9.1K	1	
R4912	ERJ3RED124	M.RESISTOR CH 1/16W 120K	1	
R4913	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R4914	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4915	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4916	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R4917	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	1	
R4918	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4919	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4920	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R4921	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4922	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R4923	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4924	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R4925	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R4926	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R4927	ERJ3GEYJ202	M.RESISTOR CH 1/16W 2K	1	
R4928	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R4929	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R4930,31	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R4932	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R4933	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R4934	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R4935	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R4936	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4937	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R4938	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4939	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4940	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4941	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4942	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4943,44	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R4945	D1H84704A008	COMBI.R-R	1	
R4946	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
SW4100,01	VSS0126	SWITCH	2	
TG4100	EYF6CU	TEST POINT	1	
TG4200	EYF6CU	TEST POINT	1	
TG4500	EYF6CU	TEST POINT	1	
TG4800	EYF6CU	TEST POINT	1	
TP4200,01	EYF6CU	TEST POINT	2	
TP4300,01	EYF6CU	TEST POINT	2	
TP4400	EYF6CU	TEST POINT	1	
TP4500,01	EYF6CU	TEST POINT	2	
TP4801	EYF6CU	TEST POINT	1	
TP4901	EYF6CU	TEST POINT	1	
VR4200,01	EVMEGSA00B14	V.RESISTOR 10K	2	
VR4300,01	EVMEGSA00B14	V.RESISTOR 10K	2	
VR4800	EVMEGSA00B54	V.RESISTOR 50K	1	
VR4802	EVMEGSA00B24	V.RESISTOR 20K	1	
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E2	VEP83557B	F2 V OUT P.C.BOARD0	1	(RTL)
C104	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C105	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C106	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C107	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C150-52	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C153	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C200-05	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C206	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C207,08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C209	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C210-22	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	13	
C230	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C231-38	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C260-63	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C300,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C302	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C304	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C305	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C306	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C307	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C308	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C309,10	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	2	
C311	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C313,14	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C316	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C318	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C320	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C321	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C322,23	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C324	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C325-27	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C330,31	ECUX1H560JCV	C.CAPACITOR CH 50V 56P	2	
C332-37	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C338	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C339	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C340,41	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C400-03	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C404,05	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C406-09	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C410,11	ECUX1H560JCV	C.CAPACITOR CH 50V 56P	2	
C412,13	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C416,17	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	2	
C418-21	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C422	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C423-30	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C431-33	ECUX1H181JCV	C.CAPACITOR CH 50V 180P	3	
C434-36	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	3	
C440-43	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C444,45	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C446,47	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C448	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C449-53	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C454	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C455	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C456	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C457	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C458	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C459	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C460	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C461	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C462	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C463	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C464-69	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C470	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C471-77	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C479	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C480-83	EEVHB0J470	E.CAPACITOR 6.3V 47U	4	
C486-89	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C490	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C491	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C492,93	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C494	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C500-07	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C508-11	EEVHB0J470	E.CAPACITOR 6.3V 47U	4	
C512	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C513	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C514	ECUX1H070DCV	C.CAPACITOR CH 50V 7P	1	
C516	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C517-29	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	13	
C530-34	ECUX1H181JCV	C.CAPACITOR CH 50V 180P	5	
C535-39	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	5	
C540	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C560	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C561,62	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C563	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C564	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C565	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C566,67	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C568	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C569	ECUX1H181JCV	C.CAPACITOR CH 50V 180P	1	
C570,71	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C572	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C573	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C574-76	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C577	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C578,79	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C580-83	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C584	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C585,86	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C587	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C589	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C590,91	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	2	
C592,93	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C600,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C602	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C603,04	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C605-07	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C608	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C609	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C610-12	EEVHB0J470	E.CAPACITOR 6.3V 47U	3	
C613,14	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C615,16	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C617,18	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C619	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C620,21	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C623-25	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C626	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C627,28	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C630	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C631	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C632	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C633	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C634,35	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C636	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C637	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C638	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C639	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C640	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C642	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C644	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C700,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C703-06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C707	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C800	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
D400-02	MA3068-M	DIODE	3	
D500-04	MA3068-M	DIODE	5	
D560	MA142WK	DIODE	1	
D561	MA716	DIODE	1	
D600	MA142K	DIODE	1	
D601	MA335-R	DIODE	1	
D602	MA142K	DIODE	1	
D700	LN1251CAL	DIODE	1	
FL302,03	VLF1476	FILTER	2	J0E3504B0004
FL304	VLF1354	FILTER	1	
FL450	VLF1354	FILTER	1	
FL453	VLF1354	FILTER	1	
IC150,51	NVHC541MTCX	IC	2	
IC152	NVHC245MTCX	IC	1	
IC200	C1ZBZ0001836	IC	1	
IC201	C0CBAAB00021	IC	1	
IC203,04	NVHC541MTCX	IC	2	
IC230	UPD65944G020	IC	1	
IC260-62	NVHC541MTCX	IC	3	
IC263	74LCX240MTCX	IC	1	
IC300	XC62FP5002P	IC	1	
IC301	C0ZBZ0000505	IC	1	
IC303	XC62FP5002P	IC	1	
IC304	XC62DN5002P	IC	1	
IC305	NJM2534V	IC	1	
IC400	XC62FP5002P	IC	1	
IC401	XC62DN5002P	IC	1	
IC402	XC62FP5002P	IC	1	
IC403	XC62DN5002P	IC	1	
IC404-06	AD8055AR	IC	3	
IC450	XC62FP5002P	IC	1	
IC451	XC62DN5002P	IC	1	
IC452	XC62FP5002P	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC453	NJM2534V	IC	1	
IC454	XC62DN5002P	IC	1	
IC455	AD8055AR	IC	1	
IC456	XC62FP5002P	IC	1	
IC457	XC62DN5002P	IC	1	
IC458	XC62FP5002P	IC	1	
IC459	XC62DN5002P	IC	1	
IC460,61	AD8055AR	IC	2	
IC500	XC62FP5002P	IC	1	
IC501	XC62DN5002P	IC	1	
IC502	XC62FP5002P	IC	1	
IC503	XC62DN5002P	IC	1	
IC504	NJM2534V	IC	1	
IC505	TVHT08FT	IC	1	
IC560	NJM78L09UA	IC	1	C0CBAHC00002
IC561	AN91A12S	IC	1	
IC562	XC62FP5002P	IC	1	
IC563	XC62DN5002P	IC	1	
IC564,65	NJM360M	IC	2	C0BBZB000001
IC566	TVHT04FT	IC	1	
IC567	TVHT00F	IC	1	
IC568	SN74LS221NS	IC	1	
IC600	THC4053FT	IC	1	
IC601	NJM082BV	IC	1	
IC602	NJM360M	IC	1	C0BBZB000001
IC603	NJM082BV	IC	1	
IC604	XC62FP5002P	IC	1	
IC605	XC62DN5002P	IC	1	
IC606	NJM082BV	IC	1	
IC607	TVHC125FT	IC	1	
IC608	NJM360M	IC	1	C0BBZB000001
IC700	UPD65650J203	IC	1	C1ZBZ0001380
IC701,02	TVHT244FT	IC	2	
ID0	VVVSI3560	SOFTWARE	1	
IP202	C1ZBZ0001555	IC	1	
L100,01	VLF1151A132	COIL	2	
L400,01	VLQ0163J560	COIL 56UH	2	
L402	VLQ0163J120	COIL 12UH	1	G1C120J00001
L450	VLQ0163J120	COIL 12UH	1	G1C120J00001
L500	VLQ0163J180	COIL 18UH	1	G1C180J00001
L560	VLQ0163J101	COIL 100UH	1	
L561	VLQ0163J221	COIL 220UH	1	G1C221J00003
L562	VLQ0163J390	COIL 39UH	1	
L600	VLQ0163J470	COIL 47UH	1	
L601	VLQ0163J221	COIL 220UH	1	G1C221J00003
L602-05	VLQ0163J470	COIL 47UH	4	
P1,P2	K1KA96B00032	CONNECTOR (MALE)	2	
P3	VJP3125B008	CONNECTOR (MALE)	1	
Q300	2SB709A	TRANSISTOR	1	
Q301-05	2SD601A	TRANSISTOR	5	
Q306-08	2SB709A	TRANSISTOR	3	
Q309-13	2SD601A	TRANSISTOR	5	
Q314	2SA1532-B	TRANSISTOR	1	
Q315	2SB709A	TRANSISTOR	1	
Q400-02	2SB709A	TRANSISTOR	3	
Q403-08	2SD601A	TRANSISTOR	6	
Q450,51	2SB709A	TRANSISTOR	2	
Q452-56	2SD601A	TRANSISTOR	5	
Q458	2SB709A	TRANSISTOR	1	
Q459,60	2SA1532-B	TRANSISTOR	2	
Q461	2SB709A	TRANSISTOR	1	
Q462,63	2SD601A	TRANSISTOR	2	
Q464	2SB709A	TRANSISTOR	1	
Q500	2SA1532-B	TRANSISTOR	1	
Q501-06	2SB709A	TRANSISTOR	6	
Q507-16	2SD601A	TRANSISTOR	10	
Q600	2SB709A	TRANSISTOR	1	
Q601,02	2SK608	TRANSISTOR	2	
QR200	UN5213	TRANSISTOR-RESISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR500	UN5113	TRANSISTOR-RESISTOR	1	
QR501	UN5213	TRANSISTOR-RESISTOR	1	
QR700	UN5213	TRANSISTOR-RESISTOR	1	
R100	EXBV8V102J	COMBI.R-R 1K	1	
R150,51	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R152,53	D1H84734A008	COMBI.R-R	2	
R155	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R200-02	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R206,07	EXBV8V102J	COMBI.R-R 1K	2	
R208	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R209,10	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R211,12	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R213	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R230-35	EXBV8V330J	COMBI.R-R 33	6	
R260-63	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R270-75	EXBV8V330J	COMBI.R-R 33	6	
R280-82	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R283-86	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	4	
R287	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R300	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R301	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R303	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R305	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R306	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R307	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R308,09	ERJ3RBD561	M.RESISTOR CH 1/16W 560	2	
R312,13	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R315,16	ERJ3RBD151	M.RESISTOR CH 1/16W 150	2	
R317,18	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R319,20	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R321	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R322	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R323	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R324	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R325	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R326	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R327	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R328	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R329-32	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R333,34	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R335	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R336	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R337	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R338	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R339,40	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R341	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R342	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R343	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R344	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R345	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R346	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R347	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R348,49	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	2	
R350	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R351	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R352,53	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R354	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R355	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R356	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R362	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R363	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R400,01	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R404,05	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	2	
R406	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R407	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R408,09	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R410	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R411	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R412	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R413	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R414-16	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	3	
R417-19	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	3	
R420-22	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R423-25	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R426-31	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	6	
R432	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R433	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R434	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R435	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R436	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R437	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R438,39	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R440	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	
R441	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R442-44	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R445	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R446	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R447	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1	
R448	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R449	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R451	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1	
R452	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R453	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R455	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R456	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R457	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R460	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R461	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R462	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R463	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R464	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R467	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R468	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R469	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R470	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R471	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R472	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R473	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R474	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R475	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R477	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R478	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R479,80	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R481	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R482	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R483	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R484,85	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	2	
R487	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R488	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R490	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R491	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R492	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R493-95	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R500	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R501	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R502	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R503	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R504	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R505	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R507	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R509	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R510	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R511-14	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	4	
R515	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R516-20	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	5	
R521-25	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	5	
R526-30	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	5	
R531-40	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	10	
R541	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R542	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R543	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R544	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R545	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R546	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R547	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R548	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R549	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R550	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R551,52	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R560	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R561	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	1	
R562	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R563	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R564	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R565,66	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	2	
R567	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R568	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R569	ERJ3GEYJ184	M.RESISTOR CH 1/16W 180K	1	
R570	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R571	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R572,73	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R574	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R575	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R577	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R579,80	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R582	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R600	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R601	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R602	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R603	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R604	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R605	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R606	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R607	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R608	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R609	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R610,11	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R612	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R613	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R614	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R615	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R618	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R620	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R622	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R623	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R624	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R625	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R626	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R627	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R630	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R631	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R632	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R633	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R634,35	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R636	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R637	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R638	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R639	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R641	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R642	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R700-02	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R704	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R705	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R800	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R801,02	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R908-12	EXBV8V330J	COMBI.R-R 33	5	
R913	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
TG560	EYF6CU	TEST POINT	1	
TG700	EYF6CU	TEST POINT	1	
TP200	EYF6CU	TEST POINT	1	
TP560-62	EYF6CU	TEST POINT	3	
TP600	EYF6CU	TEST POINT	1	
TP701-06	EYF6CU	TEST POINT	6	
VC600	ECV1ZW20X53T	TRIMMER	1	
VR301	EVMEGSA00B12	V.RESISTOR 100	1	
VR302,03	EVMEGSA00B13	V.RESISTOR 1K	2	
VR400-02	EVMEGSA00B52	V.RESISTOR 500	3	
VR452	EVMEGSA00B12	V.RESISTOR 100	1	
VR453	EVMEGSA00B52	V.RESISTOR 500	1	
VR455	EVMEGSA00B12	V.RESISTOR 100	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
VR456	EVMEGSA00B13	V.RESISTOR 1K	1	
VR560	EVMEGSA00B14	V.RESISTOR 10K	1	
VR600	EVMEGSA00B14	V.RESISTOR 10K	1	
X600	VSX0316	CRYSTAL OSCILLATOR	1	
X601	VSX0788	CRYSTAL OSCILLATOR	1	H1C2705B0006
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E4	VEP83554B	F4 D PROC P.C.BOARD0	1	(RTL)
■ E4-1	VEP83555A	CSP SUB P.C.BOARD	1	(RTL)FOR VEP83554B
■ E4-2	VEP3675B	DV UCOM P.C.BOARD	1	(RTL)FOR VEP83554B
C3021	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3022	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3025-28	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C3029	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3032-34	EEVHB0J470	E.CAPACITOR 6.3V 47U	3	
C3035	VCEA1AAP101	E.CAPACITOR 10V 100U	1	
C3036-42	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C3043	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3044-48	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C3049-52	EEVHB0J470	E.CAPACITOR 6.3V 47U	4	
C3053-57	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C3059,60	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3061,62	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C3064	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3066	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3067	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3068	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3069	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3071-73	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3074	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3100	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	FOR VEP83555A
C3101,02	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3103	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3104	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3108	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP83555A
C3113,14	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	FOR VEP83555A
C3117	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP83555A
C3120,21	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3121 02	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	FOR VEP83555A
C3122	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3123	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3124	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3125	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3127	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3177,78	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3190	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3191	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3192	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3193	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3194,95	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3196	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C3197,98	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3200-06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	FOR VEP83555A
C3207	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	FOR VEP83555A
C3208	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	FOR VEP83555A
C3209	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	FOR VEP83555A
C3210,11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	FOR VEP83555A
C3212,13	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	FOR VEP83555A
C3214	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	FOR VEP83555A
C3215,16	ECUX1H030CCV	C.CAPACITOR CH 50V 3P	2	FOR VEP83555A
C3217-19	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	FOR VEP83555A
C3222	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
C3223-25	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3226	ECUX1H090CCV	C.CAPACITOR CH 50V 9P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3228	ECUX1H100CCV	C.CAPACITOR CH 50V 10P	1	
C3230	EEVHP1E3R3	E.CAPACITOR 25V 3.3U	1	
C3232	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3233	ECUM1C224KBN	C.CAPACITOR CH 16V 0.22U	1	
C3234,35	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3236	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3237,38	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3239	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3240,41	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3242	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3243	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C3244	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3245	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C3246,47	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C3248-52	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C3253	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3254	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3255	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3256	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3257	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3258	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3300,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3303	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3306	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP83555A
C3311,12	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	FOR VEP83555A
C3315	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP83555A
C3318	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP83555A
C3319	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	FOR VEP83555A
C3320-23	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	FOR VEP83555A
C3331-38	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C3340-49	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	10	
C3350	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C3381-85	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C3400,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3402	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3403	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3404	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3405	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3406	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3406	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP83555A
C3407	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	FOR VEP83555A
C3407,08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3408	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	FOR VEP83555A
C3409	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	FOR VEP83555A
C3409,10	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3411	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3412	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3412	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	FOR VEP83555A
C3413	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3413	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	FOR VEP83555A
C3414-19	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C3420	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C3421,22	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C3451,52	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3500	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	FOR VEP83555A
C3501	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP83555A
C3502	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	FOR VEP83555A
C3503	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP83555A
C3504	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	FOR VEP83555A
C3505	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	FOR VEP83555A
C3506-02	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	FOR VEP83555A
C3512-15	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C3516	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C3541-46	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C3631-36	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C3661-65	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C3701-07	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C3708	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C3751-58	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C3759	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4200,01	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C4202-06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C4300-07	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C4310,11	EEVHB0J101	E.CAPACITOR 6.3V 100U	2	
C4312	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4313	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C4314,15	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4316	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4400	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4401-06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C4500-04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C4505	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4600	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4601,02	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	2	
C4603,04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
D3021-23	MA701A	DIODE	3	
D3190	MA142K	DIODE	1	
IC3021	LT1086CM	IC	1	C0CBAYG00001
IC3022	XC62FP3202P	IC	1	
IC3025-28	XC62FP3202P	IC	4	
IC3029,30	C0CBAAB00021	IC	2	
IC3031,32	XC62FP2302P	IC	2	
IC3033	C0CBAAB00021	IC	1	
IC3035	XC62FP5002P	IC	1	
IC3036	XC62FP2302P	IC	1	
IC3037	XC62DN5002P	IC	1	
IC3071	NVHC245MTCX	IC	1	
IC3072,73	NVHC541MTCX	IC	2	
IC3100	XC62FP2502PR	IC	1	FOR VEP83555A
IC3101	C1AB00000922	IC	1	FOR VEP83555A
IC3121-27	NVHC541MTCX	IC	7	
IC3171,72	NVHC244F	IC	2	
IC3190	NJM082BV	IC	1	
IC3191	74LCX125MTCX	IC	1	
IC3200	MN2MD00006F	IC	1	FOR VEP83555A
IC3201	74LCX125MTCX	IC	1	FOR VEP83555A
IC3202,03	74AHC1GU04CK	IC	2	FOR VEP83555A
IC3221	NJM082BV	IC	1	
IC3222	BH7086KV	IC	1	C1ZBZ0001649
IC3223	74AHC1GU04CK	IC	1	
IC3224	NJM082BV	IC	1	
IC3225,26	74AHC1GU04CK	IC	2	
IC3227	C0JBAZ000280	IC	1	
IC3228-30	74LCX244MTCX	IC	3	
IC3231	74LCX257MTCX	IC	1	
IC3232-34	74LCX244MTCX	IC	3	
IC3300	C1AB00000922	IC	1	FOR VEP83555A
IC3301	MS51V8221-3G	IC	1	
IC3303	MS51V8221-3G	IC	1	
IC3331	C1ZBZ0001836	IC	1	
IC3381,82	NVHC244F	IC	2	
IC3383,84	C0JBAZ001728	IC	2	
IC3385	NVHC244F	IC	1	
IC3400	MN2MD00006F	IC	1	FOR VEP83555A
IC3401	C1ZBZ0001836	IC	1	
IC3451,52	MS51V8221-3G	IC	2	
IC3500	XC62FP3202P	IC	1	FOR VEP83555A
IC3501	AN3742FHN-EB	IC	1	FOR VEP83555A
IC3511	UPD65943G028	IC	1	
IC3541	DS90LV048A	IC	1	
IC3542	DS90LV047A	IC	1	
IC3631	C1ZBZ0001454	IC	1	
IC3632	NVHC541MTCX	IC	1	
IC3661	C1ZBZ0001454	IC	1	
IC3702	C0JBAZ000280	IC	1	
IC3752,53	C0JBAZ000280	IC	2	
IC4200,01	PLL1700E	IC	2	
IC4202	NVHC244F	IC	1	
IC4300	C1ZBZ0001836	IC	1	
IC4302	C1BB00000529	IC	1	
IC4400,01	M5256DVP10VL	IC	2	C3BBFC000171
IC4402	C1AB00001135	IC	1	
IC4500	M5256DVP10VL	IC	1	C3BBFC000171
IC4501	UPD65949G076	IC	1	
IC4600	C0JBAB000244	IC	1	
IC4601,02	AD1893JST	IC	2	
ID0	VVVSI3556	SOFTWARE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IP3101,02	C1ZBZ0001555	IC	2	
JP3000	VJR1008	EARTH LUG	1	FOR VEP83555A
L3190,91	VLQ0319K470	COIL 47UH	2	G1C470K00013
L3222	VLQ0163J6R8	COIL 6.8UH	1	G1C6R8J00007
L3223	VLQ0163J120	COIL 12UH	1	G1C120J00001
L3224-28	VLQ0319K470	COIL 47UH	5	G1C470K00013
L3401,02	VLQ0319K470	COIL 47UH	2	G1C470K00013
L4200,01	VLQ0319K470	COIL 47UH	2	G1C470K00013
L4301-03	VLQ0319K470	COIL 47UH	3	G1C470K00013
P3000	VJS4064N160E	CONNECTOR (FEMALE)	1	K1KAG0A00006
P3001,02	VJP3454B096	CONNECTOR (MALE)	2	K1KA96B00021
P3101	VJP3125B008	CONNECTOR (MALE)	1	
P3381	VJP4064N160C	CONNECTOR (MALE)	1	K1KBG0A00006
P3471	VJS4106A120L	CONNECTOR (FEMALE)	1	
P3491	VJS4106A120L	CONNECTOR (FEMALE)	1	
R3001	D1H810140001	COMBI.R-R	1	
R3021	ERJ6RBD131	M.RESISTOR CH 1/10W 130	1	
R3022	ERJ6RBD201	M.RESISTOR CH 1/10W 200	1	
R3071	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3072,73	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3074,75	D1H84734A008	COMBI.R-R	2	
R3076,77	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R3100	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3102	EXBV8V102J	COMBI.R-R 1K	1	
R3103	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3104	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3105	EXBV8V102J	COMBI.R-R 1K	1	
R3106	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP83555A
R3107	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	FOR VEP83555A
R3115	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP83555A
R3116-19	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	FOR VEP83555A
R3121	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3122	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3122	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	FOR VEP83555A
R3123	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3123	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	FOR VEP83555A
R3124	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3124	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	FOR VEP83555A
R3125	D1H84704A008	COMBI.R-R	1	
R3125	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	FOR VEP83555A
R3126	D1H84704A008	COMBI.R-R	1	
R3126	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3127	D1H84704A008	COMBI.R-R	1	
R3127	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3128	D1H84704A008	COMBI.R-R	1	
R3129	D1H84734A008	COMBI.R-R	1	
R3132-35	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R3136-39	D1H84704A008	COMBI.R-R	4	
R3140	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3141-44	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R3171,72	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3173-75	D1H84704A008	COMBI.R-R	3	
R3183	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3184,85	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3190	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3191	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3192-94	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R3195	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3196	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3197	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3198,99	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3200	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3200	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	FOR VEP83555A
R3201	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3201	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3202	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	FOR VEP83555A
R3204	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	FOR VEP83555A
R3205	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83555A
R3206-08	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	FOR VEP83555A
R3209	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3210	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	FOR VEP83555A
R3211	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	FOR VEP83555A
R3212	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	FOR VEP83555A
R3213	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	FOR VEP83555A
R3214,15	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	FOR VEP83555A
R3216	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	FOR VEP83555A
R3217	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	FOR VEP83555A
R3218,19	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	FOR VEP83555A
R3221	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3222	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP83555A
R3222	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3223	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3224	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3224	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	FOR VEP83555A
R3225	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3225	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP83555A
R3226	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3227	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R3227	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	FOR VEP83555A
R3228	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3228	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	FOR VEP83555A
R3229	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3230	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R3231	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3232	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3234	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3237	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R3239	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3240	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R3241	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3242	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3243	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R3244-46	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	3	
R3247	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3248	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3249	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3250	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R3251	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3252	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3253	ERJ3GEYJ302	M.RESISTOR CH 1/16W 3K	1	
R3254	ERJ3GEYJ184	M.RESISTOR CH 1/16W 180K	1	
R3255,56	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	2	
R3257,58	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	2	
R3261-63	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R3264-81	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	18	
R3283-85	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	3	
R3287	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3300	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3301,02	D1H84704A008	COMBI.R-R	2	
R3303	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3305	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3307	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP83555A
R3308	D1H84704A008	COMBI.R-R	1	
R3308	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3309	D1H84704A008	COMBI.R-R	1	
R3309	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3310	D1H84734A008	COMBI.R-R	1	
R3310	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3311	D1H84734A008	COMBI.R-R	1	
R3314	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3331,32	D1H84704A008	COMBI.R-R	2	
R3334	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3337	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3338	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3381	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3383	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3388,89	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3390	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3391	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3394,95	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3397	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3400	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3401	D1H84704A008	COMBI.R-R	1	
R3401	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP83555A
R3402	D1H84704A008	COMBI.R-R	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3403	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP83555A
R3404	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	FOR VEP83555A
R3406	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	FOR VEP83555A
R3407	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	FOR VEP83555A
R3408	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3408	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3409	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3411	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3451,52	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3471-74	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	4	
R3475-77	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R3478	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	1	
R3479-85	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	7	
R3491-94	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	4	
R3495-97	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R3498	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	1	
R3499	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3501	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	FOR VEP83555A
R3502	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	FOR VEP83555A
R3504	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	FOR VEP83555A
R3505	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	FOR VEP83555A
R3508	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3511	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3512	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3541-48	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	8	
R3549-56	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	8	
R3601	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3633	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3636	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3662	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3701	EXBV8V102J	COMBI.R-R 1K	1	
R3706	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3707	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3709-11	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R3751	EXBV8V102J	COMBI.R-R 1K	1	
R3757	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3758	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3761-63	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R4200,01	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R4202	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4203-08	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	6	
R4302	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R4303	D1H84734A008	COMBI.R-R	1	
R4700	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
TG3071-76	EYF6CU	TEST POINT	6	
TP3209	EYF6CU	TEST POINT	1	FOR VEP83555A
TP3211	EYF6CU	TEST POINT	1	FOR VEP83555A
TP3408	EYF6CU	TEST POINT	1	FOR VEP83555A
TP3411	EYF6CU	TEST POINT	1	FOR VEP83555A
TP3471	EYF6CU	TEST POINT	1	
TP3473	EYF6CU	TEST POINT	1	
TP3478	EYF6CU	TEST POINT	1	
TP3491	EYF6CU	TEST POINT	1	
TP3493,94	EYF6CU	TEST POINT	2	
TP3504	EYF6CU	TEST POINT	1	
TP4302,03	EYF6CU	TEST POINT	2	
X3190	VSX0788	CRYSTAL OSCILLATOR	1	H1C2705B0006
X3200	VSX0645	CRYSTAL OSCILLATOR	1	FOR VEP83555A
X4600	VSX0519	CRYSTAL OSCILLATOR	1	H0D160500011
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
	VMX2020	P.C.BOARD POST	2	K9ZZ00000689 FOR VEP83555A
	XYN3+K6	SCREW	4	FOR VEP83555A
■ E5	VEP83553B	F5 V IN P.C.BOARD0	1	(RTL)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3001	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3003	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3005-07	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3008	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3010	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3012	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3013	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3015	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3017	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3018	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3019-25	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C3026,27	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C3028,29	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3030-34	EEVHB0J470	E.CAPACITOR 6.3V 47U	5	
C3035-46	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	12	
C3047-52	EEVHB0J470	E.CAPACITOR 6.3V 47U	6	
C3053-57	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C3058	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3059-61	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3062	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3063	ECA1AKF390	E.CAPACITOR 10V 39U	1	
C3109	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3110,11	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C3112,13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3115	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3120	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C3121-23	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3124	EEVHB1H4R7	E.CAPACITOR 50V 4.7U	1	
C3125	ECHU1H683JB	P.CAPACITOR 50V 0.068U	1	
C3128	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C3130	ECUX1H821JCV	C.CAPACITOR CH 50V 820P	1	
C3131	EEVHB0J330	E.CAPACITOR 6.3V 33U	1	
C3132	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C3134	ECHU1C392J	P.CAPACITOR 16V 3900P	1	
C3135	ECUM1C334KBM	C.CAPACITOR CH 16V 0.33U	1	
C3136	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C3137	ECHU1C152J	P.CAPACITOR 16V 1500P	1	
C3139	ECUX1C684KBM	C.CAPACITOR CH 16V 0.68U	1	
C3140	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C3141,42	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3144	EEVHB0J330	E.CAPACITOR 6.3V 33U	1	
C3145	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3160	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3161	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3162	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3163	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3164-68	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C3169	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C3170	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3173	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3175-77	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3178	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C3179-89	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	11	
C3190,91	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C3192,93	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3200	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3201-13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	13	
C3300	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3301	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3302	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C3303	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C3304	ECUX1H080DCV	C.CAPACITOR CH 50V 8P	1	
C3305,06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3307	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C3309	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C3310-13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C3314	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3315	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3316	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3317	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3318	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C3319	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C3320	ECUX1H080DCV	C.CAPACITOR CH 50V 8P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3321,22	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3323	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C3325-30	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C3332	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3333	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3334	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C3335	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	1	
C3336	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C3338	ECUX1H070DCV	C.CAPACITOR CH 50V 7P	1	
C3339	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C3340,41	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	2	
C3342	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C3343-45	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3347	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C3401	ECUM1H104KBN	C.CAPACITOR CH 50V 0.1U	1	
C3402	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3403,04	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C3405-08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C3409	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C3410,11	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C3412	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C3413-15	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3416	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C3417	ECUM1C474KBM	C.CAPACITOR CH 16V 0.47U	1	
C3418	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C3419	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3420	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3421-24	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C3450	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3451	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3452	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3453	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3454	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3455	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3456	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C3457	ECUX1H040CCV	C.CAPACITOR CH 50V 4P	1	
C3458	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3459	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C3460	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3461	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3462	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3463	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3464	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3465	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3466	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3467	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3468	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3469	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C3470	ECUX1H040CCV	C.CAPACITOR CH 50V 4P	1	
C3471	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3472	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C3473	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3474,75	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C3476	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C3477-79	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3480	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C3481,82	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C3501	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3502-04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3505	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C3506	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C3507,08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3509,10	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C3514	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3515	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C3516,17	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C3550,51	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2	
C3552	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3553	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C3554	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	1	
C3555	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C3556	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C3557	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C3558	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C3559,60	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3561	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C3562	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3563	ECUX1H681JCV	C.CAPACITOR CH 50V 680P	1	
C3564	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3565,66	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	2	
C3567,68	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3569	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C3570	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3571	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C3572	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3573	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3575	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3576,77	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C3578	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3579	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C3580	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3600	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3601	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3602,03	EEVHB0J101	E.CAPACITOR 6.3V 100U	2	
C3605	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C3606	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3607	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3630	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3631	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3632	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3633	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3634	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3638-47	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	10	
C3648	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3649	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3650	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3651-53	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3654	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3655	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3656	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3657	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3658,59	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3660	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3662	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3663	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C3664	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C3700	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3701	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3702	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3703	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3704	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3705	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C3706	ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3707,08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3712-21	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	10	
C3722	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3723,24	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3725	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3726	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3727	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3728	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3729,30	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3731	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3733	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3734	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C3735	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C3736	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3800	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3801	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3802	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3803	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3804	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3805	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C3806	ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3807,08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3812-21	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	10	
C3822	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3823	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3824	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3825,26	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3827	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3828	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3829,30	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3831	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3833	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3834	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C3835	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C3836	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3903	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3905,06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3930	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C3931-41	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	11	
C3942	ECUX1H560JCV	C.CAPACITOR CH 50V 56P	1	
C3943	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3945	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3947	ECUX1H070DCV	C.CAPACITOR CH 50V 7P	1	
C3948,49	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C3950,51	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3954	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3980,81	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
D3102	MA142K	DIODE	1	
D3160	MA3J14300L	DIODE	1	
D3400	MA3J14300L	DIODE	1	
D3450	MA142K	DIODE	1	
D3501	MA142WK	DIODE	1	
D3550	MA142K	DIODE	1	
D3551	MA335-R	DIODE	1	
D3630	MA3J14300L	DIODE	1	
D3700	MA3J14300L	DIODE	1	
D3800	MA3J14300L	DIODE	1	
DL3500	VLD0264	COIL	1	G2A7R9C00001
FL3101	VLF1015	FILTER	1	
FL3631	VLF1353	FILTER	1	
FL3701	VLF1355	FILTER	1	
FL3801	VLF1355	FILTER	1	
IC3001,02	NJM78L09UA	IC	2	C0CBAHC00002
IC3005	XC62FP3302P	IC	1	
IC3007-10	AN77L05M	IC	4	
IC3011,12	XC62FP5002P	IC	2	
IC3013-17	XC62DN5002P	IC	5	
IC3018	C0CBAAB00021	IC	1	
IC3019	AN77L05M	IC	1	
IC3020	AN77L03M	IC	1	
IC3101	THC4053FT	IC	1	
IC3103	AN3296S	IC	1	
IC3104	SN74LS221NS	IC	1	
IC3160	NJM084M	IC	1	C0ABFB000008
IC3161	NJM082BM	IC	1	C0ABEB000017
IC3162	C0FBAF000042	IC	1	
IC3163	TVHT244F	IC	1	
IC3164	74AHC1G08DCK	IC	1	
IC3200	74AHC1G08DCK	IC	1	
IC3201	CXD2105AQ	IC	1	YWCXD2105AQ
IC3300,01	THC4053FT	IC	2	
IC3400,01	SN74LS221NS	IC	2	
IC3402	C0JBAB000196	IC	1	
IC3403	NJM084M	IC	1	C0ABFB000008
IC3404	NJM082BM	IC	1	C0ABEB000017
IC3405-07	TC4W53F	IC	3	C0JBAR000225
IC3450,51	NJM1496M	IC	2	C1CB00000435
IC3452	NJM319M	IC	1	C0BBBA000026
IC3502	AN91A12S	IC	1	
IC3550,51	SN74LS221NS	IC	2	
IC3552	TVHC00FT	IC	1	
IC3553	TC4S584F	IC	1	
IC3554	TVHC74FT	IC	1	
IC3555	NJM082BM	IC	1	C0ABEB000017
IC3556	TC4W53F	IC	1	C0JBAR000225
IC3557	NVHC244MTCX	IC	1	
IC3630	NJM082BM	IC	1	C0ABEB000017
IC3631	C0FBAF000042	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC3632	THC4053FT	IC	1	
IC3633	NJM084M	IC	1	C0ABFB000008
IC3700	NJM082BM	IC	1	C0ABEB000017
IC3701	C0FBAF000042	IC	1	
IC3702	THC4053FT	IC	1	
IC3703	NJM084M	IC	1	C0ABFB000008
IC3704	C0ZBZ0000569	IC	1	
IC3800	NJM082BM	IC	1	C0ABEB000017
IC3801	C0FBAF000042	IC	1	
IC3802	THC4053FT	IC	1	
IC3803	NJM084M	IC	1	C0ABFB000008
IC3804	C0ZBZ0000569	IC	1	
IC3900	M62370GP	IC	1	C0FBBD000082
IC3930	C1ZBZ0001836	IC	1	
IC3931,32	TVHT244F	IC	2	
IC3935	74AHC1G08DCK	IC	1	
IC3980	74LCX244MTCX	IC	1	
IC3981	NVHC244MTCX	IC	1	
ID0	VVVSI3573C	SOFTWARE	1	
IP3930	C1ZBZ0001555	IC	1	
L3001-03	VLF1151A132	COIL	3	
L3102-04	VLQ0319K101	COIL 100UH	3	G1C101K00022
L3160-65	VLQ0319K101	COIL 100UH	6	G1C101K00022
L3200	VLQ0319K101	COIL 100UH	1	G1C101K00022
L3300	VLQ0319K101	COIL 100UH	1	G1C101K00022
L3301	VLQ0163J180	COIL 18UH	1	G1C180J00001
L3302	VLQ0163J220	COIL 22UH	1	
L3303,04	VLQ0319K101	COIL 100UH	2	G1C101K00022
L3305	VLQ0163J180	COIL 18UH	1	G1C180J00001
L3306	VLQ0163J220	COIL 22UH	1	
L3307	VLQ0163J270	COIL 27UH	1	
L3308	VLQ0163J6R8	COIL 6.8UH	1	G1C6R8J00007
L3309	VLQ0163J5R6	COIL 5.6UH	1	
L3401,02	VLQ0319K101	COIL 100UH	2	G1C101K00022
L3450	VLQ0319K101	COIL 100UH	1	G1C101K00022
L3451	VLQ0163J560	COIL 56UH	1	
L3452,53	VLQ0319K101	COIL 100UH	2	G1C101K00022
L3454	VLQ0163J560	COIL 56UH	1	
L3455	VLQ0163J470	COIL 47UH	1	
L3500	VLQ0319K101	COIL 100UH	1	G1C101K00022
L3501	VLQ0133J391	COIL 390UH	1	
L3502	VLQ0319K101	COIL 100UH	1	G1C101K00022
L3550	VLQ0319K470	COIL 47UH	1	G1C470K00013
L3600,01	VLQ0319K101	COIL 100UH	2	G1C101K00022
L3630-34	VLQ0319K101	COIL 100UH	5	G1C101K00022
L3635	VLQ0133J821	COIL 820UH	1	
L3700-04	VLQ0319K101	COIL 100UH	5	G1C101K00022
L3705	VLQ0133J821	COIL 820UH	1	
L3800-04	VLQ0319K101	COIL 100UH	5	G1C101K00022
L3805	VLQ0133J821	COIL 820UH	1	
P3001	K1KA96B00032	CONNECTOR (MALE)	1	
P3002	VJP3125B008	CONNECTOR (MALE)	1	
Q3100	2SB709A	TRANSISTOR	1	
Q3101	2SD601A	TRANSISTOR	1	
Q3102	XN4501	TRANSISTOR-RESISTOR	1	
Q3160	2SD601A	TRANSISTOR	1	
Q3161	2SC3130	TRANSISTOR	1	
Q3162	2SB709A	TRANSISTOR	1	
Q3163-65	2SD601A	TRANSISTOR	3	
Q3166	2SK198-R	TRANSISTOR	1	2SK01980R
Q3300	2SD601A	TRANSISTOR	1	
Q3301	2SB709A	TRANSISTOR	1	
Q3302	2SD601A	TRANSISTOR	1	
Q3303	2SC3130	TRANSISTOR	1	
Q3304	2SD601A	TRANSISTOR	1	
Q3305	XN4601	TRANSISTOR-RESISTOR	1	
Q3306	2SD601A	TRANSISTOR	1	
Q3307	2SB709A	TRANSISTOR	1	
Q3308	2SD601A	TRANSISTOR	1	
Q3309	2SC3130	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q3310	2SD601A	TRANSISTOR	1	
Q3311	XN4601	TRANSISTOR-RESISTOR	1	
Q3312	2SD601A	TRANSISTOR	1	
Q3313	2SB709A	TRANSISTOR	1	
Q3314	2SC3130	TRANSISTOR	1	
Q3315	2SD601A	TRANSISTOR	1	
Q3401,02	2SD601A	TRANSISTOR	2	
Q3450,51	2SD601A	TRANSISTOR	2	
Q3452	2SB709A	TRANSISTOR	1	
Q3453	2SD601A	TRANSISTOR	1	
Q3454	2SB709A	TRANSISTOR	1	
Q3455,56	2SD601A	TRANSISTOR	2	
Q3550	2SC3757-R	TRANSISTOR	1	
Q3551,52	2SA1226E34	TRANSISTOR	2	
Q3553	2SC3757-R	TRANSISTOR	1	
Q3554	2SC2295	TRANSISTOR	1	
Q3600	XN4601	TRANSISTOR-RESISTOR	1	
Q3602	XN4601	TRANSISTOR-RESISTOR	1	
Q3604	XN4601	TRANSISTOR-RESISTOR	1	
Q3630	2SD601A	TRANSISTOR	1	
Q3631,32	2SB709A	TRANSISTOR	2	
Q3633	2SD601A	TRANSISTOR	1	
Q3634	2SC3130	TRANSISTOR	1	
Q3635-37	2SD601A	TRANSISTOR	3	
Q3639	2SB709A	TRANSISTOR	1	
Q3640	2SK198-R	TRANSISTOR	1	2SK01980R
Q3700	2SD601A	TRANSISTOR	1	
Q3701	2SB709A	TRANSISTOR	1	
Q3703,04	2SD601A	TRANSISTOR	2	
Q3705	2SC3130	TRANSISTOR	1	
Q3706,07	2SD601A	TRANSISTOR	2	
Q3709	2SD601A	TRANSISTOR	1	
Q3711	2SB709A	TRANSISTOR	1	
Q3712	2SK198-R	TRANSISTOR	1	2SK01980R
Q3800	2SD601A	TRANSISTOR	1	
Q3801	2SB709A	TRANSISTOR	1	
Q3803,04	2SD601A	TRANSISTOR	2	
Q3805	2SC3130	TRANSISTOR	1	
Q3806,07	2SD601A	TRANSISTOR	2	
Q3809	2SD601A	TRANSISTOR	1	
Q3811	2SB709A	TRANSISTOR	1	
Q3812	2SK198-R	TRANSISTOR	1	2SK01980R
QR3300	UN2213	TRANSISTOR-RESISTOR	1	
R3103	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3104	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3105	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3106	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3107	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3113	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3114	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3115	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R3117	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R3118	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3119	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R3120	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3121	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3124	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R3125	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3127	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1	
R3128	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3131	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	1	
R3134	ERJ3GEYJ753	M.RESISTOR CH 1/16W 75K	1	
R3137	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R3138	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3141	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3142	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R3145	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R3146	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3149	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R3150	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R3153	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R3154	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3160	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3161	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R3162	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R3163	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3164	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3165	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3166	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3167	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R3170	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3173	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3174	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3175	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3176	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3177	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3178	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3179	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3181-83	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R3185	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3186,87	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R3188	ERJ3RBD132	M.RESISTOR CH 1/16W 1.3K	1	
R3189	ERJ3RBD133	M.RESISTOR CH 1/16W 13K	1	
R3190	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R3193	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R3196	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3197-99	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
R3200	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3201	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3203	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3205	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3208	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3211,12	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3214	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3215,16	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R3217	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3218	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R3219	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R3220	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R3221	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3222	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R3223,24	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R3300	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3301	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3303	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3304	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3305	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3306	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3307	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3308	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3309	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3313	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3314	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R3315,16	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3317	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3318	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3319	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3320	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3321	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3322,23	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R3325	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3326	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3327	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3328	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3329	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3330	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3331	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3332	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3333	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3337	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R3338	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3339	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R3340	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3341	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3342	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3344	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	
R3345	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3346	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3347,48	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R3349	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R3350	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3351	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3352	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R3353	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3354	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3355	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R3356	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3357	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3358	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3359	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3360	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3361	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3363	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R3364,65	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3366	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3401	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3402	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3404	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3405	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3406	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3407	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3408	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3410	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R3411	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3412	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3413-15	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R3417	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R3418	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3419	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R3420,21	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3422	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3423	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R3425	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R3426	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3427	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3428-30	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R3432	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3433	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R3434	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3435	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3438	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3443-46	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R3449	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3450	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3451	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3452	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3453,54	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3455	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3456	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R3457,58	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	2	
R3459,60	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R3461	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3462	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3463	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3466	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3467	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3468	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3469	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3470,71	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3472	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3473	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R3474,75	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	2	
R3476,77	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	2	
R3478	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3479	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3480	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3483	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3484	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3485,86	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R3487	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3488	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3489	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3490	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3491	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3492	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3493	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3494	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3495	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3496	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3497	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R3502	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3506	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3508	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R3515	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R3516	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	1	
R3517-19	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R3541	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3547	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	1	
R3550	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3551	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3552	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R3553	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3554	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3555,56	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R3557,58	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R3559	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R3561	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R3562	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R3563,64	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	2	
R3565	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3567	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3568	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R3569	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R3570	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3575,76	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R3577	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3578	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3580	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3581	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3582-86	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	5	
R3587	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3588	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3589	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R3590	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3591	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3592	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3600	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3601	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3602,03	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R3607	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R3609	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3610	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3611	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3612	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3613	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R3616	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3617	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3618	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3619	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3622	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3623	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R3630	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3631	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3632	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R3633	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3634	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3635	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3636	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3637	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3638	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3640	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3641	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3642	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3643	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3644	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3649	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3651	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3652	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3653	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3654	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3655	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R3656	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R3657	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3658	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3659	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R3660	ERJ3RBD302	M.RESISTOR CH 1/16W 3K	1	
R3661	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R3662	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R3665	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R3666	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3668	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R3669	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3670	ERJ3RBD393	M.RESISTOR CH 1/16W 39K	1	
R3675	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R3676	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3677	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3678	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3679	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3680,81	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	2	
R3682	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3683	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3684	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3688	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3700	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3701	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R3702	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R3703	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3704-07	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R3712	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R3713	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3714	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3716	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3717	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3718	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3719	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R3723	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3726	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3727	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3728	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3729	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3730	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R3731	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R3732,33	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3734	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R3735	ERJ3RBD302	M.RESISTOR CH 1/16W 3K	1	
R3736	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R3737	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R3743	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R3744	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3746,47	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3750	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R3751	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3752	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3753	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3754	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3755	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3756	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3757	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3758	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3759	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3763	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R3800	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3801	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R3802	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R3803	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3804-07	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R3812	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R3813	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3814	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3816	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3817	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3818	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3819	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3823	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3826	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3827	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3828	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3829	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3830	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R3831	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R3832,33	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3834	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R3835	ERJ3RBD302	M.RESISTOR CH 1/16W 3K	1	
R3836	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R3837	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R3843	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R3844	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3846,47	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3850	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R3851	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3852	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3853	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3854	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3855	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3856	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3857	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3858	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3859	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3863	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R3864,65	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3900	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3901	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3902	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3903	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3904	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3905	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3906	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3930	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3931	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3932,33	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3936,37	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3939	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3940	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3941	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3942	EXBV8V102J	COMBI.R-R 1K	1	
R3943	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R3944	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3945	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3946,47	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3948	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3950,51	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3953,54	D1H84704A008	COMBI.R-R	2	
R3955	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3958	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3980	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3981	EXBV8V330J	COMBI.R-R 33	1	
R3982,83	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R3984,85	EXBV8V330J	COMBI.R-R 33	2	
TG3160	EYF6CU	TEST POINT	1	
TG3400	EYF6CU	TEST POINT	1	
TG3450	EYF6CU	TEST POINT	1	
TG3550	EYF6CU	TEST POINT	1	
TG3630	EYF6CU	TEST POINT	1	
TG3700	EYF6CU	TEST POINT	1	
TG3800	EYF6CU	TEST POINT	1	
TG3930	EYF6CU	TEST POINT	1	
TP3160	EYF6CU	TEST POINT	1	
TP3400,01	EYF6CU	TEST POINT	2	
TP3450	EYF6CU	TEST POINT	1	
TP3550-52	EYF6CU	TEST POINT	3	
TP3630	EYF6CU	TEST POINT	1	
TP3700	EYF6CU	TEST POINT	1	
TP3800	EYF6CU	TEST POINT	1	
TP3930-33	EYF6CU	TEST POINT	4	
TP3980,81	EYF6CU	TEST POINT	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
VC3500	VCV0047	TRIMMER	1	
VR3401	EVMEASA00B53	V.RESISTOR 5K	1	
VR3402	EVMEASA00B13	V.RESISTOR 1K	1	
VR3403	EVMEASA00B53	V.RESISTOR 5K	1	
VR3404	EVMEASA00B13	V.RESISTOR 1K	1	
VR3550	EVMEASA00B23	V.RESISTOR 2K	1	
X3401	H1C1775A0002	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E6	VEP86314B	F6 SYSCON P.C.BOARD0	1	(RTL)
C1-C6	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C7-10	EEVHB1C470	E.CAPACITOR 16V 47U	4	
C11,12	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C13-18	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C101	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C102,03	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	2	
C104-11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C151	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C152-55	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C156-60	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C161	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C212	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C251,52	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C253	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C254-56	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C258-63	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C264	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C301	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C302	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C303-08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C310	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C311	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C312	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C313-18	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C351,52	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C353-55	EEVHB1C470	E.CAPACITOR 16V 47U	3	
C356-58	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C401-04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C501-06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C507	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C508,09	ECUX1H100CCV	C.CAPACITOR CH 50V 10P	2	
C510-13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C553	VCK0152	C.CAPACITOR	1	F1L1C1060016
C559	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C560	ECUX1H050CCV	C.CAPACITOR CH 50V 5P	1	
C561	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C562	ECUX1H050CCV	C.CAPACITOR CH 50V 5P	1	
C563,64	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C565	VCK0152	C.CAPACITOR	1	F1L1C1060016
C566-68	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C569	VCK0152	C.CAPACITOR	1	F1L1C1060016
C570	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C573	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C575	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C576	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C577	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C578	ECUX1H821JCV	C.CAPACITOR CH 50V 820P	1	
C579	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C580	VCK0152	C.CAPACITOR	1	F1L1C1060016
C581,82	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C587,88	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C589	VCK0152	C.CAPACITOR	1	F1L1C1060016
C651-60	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	10	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C701-28	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	28	
D1	MA716	DIODE	1	
D252-56	MA716	DIODE	5	
D301	MA147	DIODE	1	
D302	MA716	DIODE	1	
D553,54	MA147	DIODE	2	
D701-09	MA716	DIODE	9	
IC1	XC62FP5002P	IC	1	
IC2	XC62DN5002P	IC	1	
IC3	NJM78L09UA	IC	1	C0CBAHC00002
IC4	NJM79L09UA	IC	1	C0CABBF00001
IC101	C2GBA0000021	IC	1	
IC102	TVHT541FT	IC	1	
IC103	TVHC32FT	IC	1	
IC104	M27C100115F1	IC	1	
IC104	VSI3558A	IC	1	
IC105	CY7C19920ZC	IC	1	
IC106	IDT71321L55F	IC	1	C3HBCC000002
IC107	NVHC138MTCX	IC	1	
IC108	TVHC00FT	IC	1	
IC151	Z84C4310FEC	IC	1	C2ZBZ0000312
IC152	TVHC161FT	IC	1	
IC153	ADM202JRN	IC	1	C0ZBZ0000171
IC156	SN75C1168NS	IC	1	
IC203	C0JBAB000196	IC	1	
IC251	TVHC32FT	IC	1	
IC252	TVHC74FT	IC	1	
IC253,54	T74HC191AF	IC	2	
IC255	TVHC574FT	IC	1	
IC256	TC74HC4094F	IC	1	C0JBAQ000104
IC257	TC74HC4050AF	IC	1	
IC258	TVHC574FT	IC	1	
IC259	TVHT574FT	IC	1	
IC260	74AHC1G08DCK	IC	1	
IC261	TVHC123FT	IC	1	
IC301	M37702S4AFP	IC	1	C2CBYF000003
IC302	M27C400110F1	IC	1	
IC302	VSI3562A	IC	1	
IC303	TVHC32FT	IC	1	
IC304	TVHC00FT	IC	1	
IC305	TVHC32FT	IC	1	
IC306	NVHC138MTCX	IC	1	
IC307	TVHC573FT	IC	1	
IC308	C0JBAB000196	IC	1	
IC309	TL7705CPSB	IC	1	C0EBS0000002
IC351	IDT71321L55F	IC	1	C3HBCC000002
IC352	CY7C19920ZC	IC	1	
IC353	STK12C68S45	IC	1	
IC354	NVHC245MTCX	IC	1	
IC401	IDT71321L55F	IC	1	C3HBCC000002
IC402,03	NVHC541MTCX	IC	2	
IC404	UPD6456T611Y	IC	1	C1AB00000555
IC501	M37702S4AFP	IC	1	C2CBYF000003
IC502	M27C200115F1	IC	1	
IC502	VSI3564B	IC	1	
IC503	CY7C19920ZC	IC	1	
IC504	TVHC573FT	IC	1	
IC505,06	NVHC138MTCX	IC	2	
IC507,08	TVHC32FT	IC	2	
IC509	TVHC00FT	IC	1	
IC551	MN51040VPI	IC	1	
IC552	TVHC32FT	IC	1	
IC553	TVHC574FT	IC	1	
IC554	TC4W53FU	IC	1	
IC555	C0ABBB000032	IC	1	
IC558	C0BBBA000044	IC	1	
IC559	C0ABBB000196	IC	1	
IC651	TVHC32FT	IC	1	
IC652	TVHC08FT	IC	1	
IC654,55	TVHC74FT	IC	2	
IC656	NVHC541MTCX	IC	1	
IC658	NVHC541MTCX	IC	1	
IC660	TLVX4245FS	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC661	NVHC541MTCX	IC	1	
IC663	NVHC245MTCX	IC	1	
IC701,02	NJM084V	IC	2	
IC703,04	NVHC541MTCX	IC	2	
IC705	TVHT541FT	IC	1	
IC706	TVHT574FT	IC	1	
IC707	TVHC574FT	IC	1	
IC708	TVHC14FT	IC	1	
IC709	TVHT04FT	IC	1	
IC710	TVHC126FT	IC	1	
IS104	VJS2336A032	CONNECTOR (FEMALE)	1	K3E032C00033
IS302	VJS2336A032	CONNECTOR (FEMALE)	1	K3E032C00033
IS502	VJS2336A032	CONNECTOR (FEMALE)	1	K3E032C00033
L1,L2	VLF1151A132	COIL	2	
L501	VLQ0163J470	COIL 47UH	1	
P1,P2	K1KA96B00032	CONNECTOR (MALE)	2	
QR301	UN5214	TRANSISTOR-RESISTOR	1	
R102-04	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
R105,06	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R107	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R110	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R112,13	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R117	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R151	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R153	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R154	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R156	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R161	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R162	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R163	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R164	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R165,66	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R167	D1H84734A008	COMBI.R-R	1	
R168,69	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R177	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R180	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R201,02	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R205	D1H84734A008	COMBI.R-R	1	
R251,52	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R253	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R254	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R255	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R256,57	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R258	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R259,60	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R266	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R268,69	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R271,72	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R273	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R274	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R301-04	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	4	
R305	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R306-08	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
R309	D1H84704A008	COMBI.R-R	1	
R310	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R311	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R312	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R313	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R314	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R315	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R316	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R317	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R318	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R319	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R351	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R401,02	D1H84704A008	COMBI.R-R	2	
R403	D1H84734A008	COMBI.R-R	1	
R404	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R405	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R406,07	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R408	D1H84704A008	COMBI.R-R	1	
R501	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R502	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R503	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R504	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R507	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R509,10	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R511	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R514	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R559	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R560	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R561	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R562	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R567	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R570	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R571	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R573	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R574,75	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R576	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R577	ERJ3GEYJ824	M.RESISTOR CH 1/16W 820K	1	
R578,79	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R580	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R581	D1H84734A008	COMBI.R-R	1	
R583,84	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R585	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R586,87	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R588	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R589	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R590	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R591	ERJ6RBD683	M.RESISTOR CH 1/10W 68K	1	
R592	ERJ6RBD123	M.RESISTOR CH 1/10W 12K	1	
R593	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R594	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R597,98	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R603	ERJ3GEYJ912	M.RESISTOR CH 1/16W 9.1K	1	
R610	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R611	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R612	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R614	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R651	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R653	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R654,55	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R656-59	D1H84734A008	COMBI.R-R	4	
R660-62	D1H84704A008	COMBI.R-R	3	
R664-67	D1H84704A008	COMBI.R-R	4	
R701-06	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	6	
R707-12	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	6	
R713	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R714	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R715-20	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	6	
R721	D1H84734A008	COMBI.R-R	1	
R722-27	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	6	
R728-30	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
R731-33	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R734,35	D1H84734A008	COMBI.R-R	2	
R736,37	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R738,39	D1H84734A008	COMBI.R-R	2	
R740,41	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R742-44	D1H84704A008	COMBI.R-R	3	
SW301	VSS0367-02B	SWITCH	1	
TG301	EYF6CU	TEST POINT	1	
TG501	EYF6CU	TEST POINT	1	
X101	VSX0641	CRYSTAL OSCILLATOR	1	
X301	VSX0641	CRYSTAL OSCILLATOR	1	
X501	VSX0654	CRYSTAL OSCILLATOR	1	H0J160500017
X551	VSX1001	CRYSTAL OSCILLATOR	1	H2C143500002
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E7	VEP82238B	F7 SERVO P.C.BOARD0	1	(RTL)
C1	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C2	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C6,C7	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C8,C9	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	2	
C10,11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C12	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C13,14	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C15,16	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	2	
C17	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C18	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C19	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C20,21	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C22-26	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C27	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C60	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C61-64	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C69	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C70-73	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	4	
C74-76	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C150,51	ECUX1C224ZFV	C.CAPACITOR CH 16V 0.22U	2	
C152,53	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C154	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C155	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C156,57	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C158,59	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C160	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	1	
C163	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C165,66	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	2	
C167-71	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C201	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C202,03	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	2	
C204-07	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C208,09	ECUX1A105ZFV	C.CAPACITOR CH 10V 1U	2	
C210-14	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C215,16	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C217,18	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C219,20	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	2	
C221-28	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C301-05	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C350	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C351,52	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C353	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C354,55	ECUX1H272KBV	C.CAPACITOR CH 50V 2700P	2	
C356-60	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C361,62	ECUX1H153KBV	C.CAPACITOR CH 50V 0.015U	2	
C364-66	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C401,02	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	2	
C403,04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C405,06	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C407,08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C409,10	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C411	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C412-24	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	13	
C425	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C426,27	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C428	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C429,30	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C431	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C432	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C450	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C451	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C452	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C453	EEUFC1V101	E.CAPACITOR 35V 100U	1	
C454,55	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	2	
C456,57	EEUFC1V101	E.CAPACITOR 35V 100U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C458,59	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C500	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C501	EEUFC1V101	E.CAPACITOR 35V 100U	1	
C502,03	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	2	
C504	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C505,06	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C507,08	EEUFC1V101	E.CAPACITOR 35V 100U	2	
C509-11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C512	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C513	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C514	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C515	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C516	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C517-19	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C550,51	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	2	
C552-54	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C555	ECUX1H153KBV	C.CAPACITOR CH 50V 0.015U	1	
C556	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C557	ECUX1H153KBV	C.CAPACITOR CH 50V 0.015U	1	
C558,59	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	2	
C560	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C561	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C562	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C563	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C564	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C565	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C566	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C567	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C568	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C569	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C570	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C571	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C572	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C573	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	1	
C574	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C575	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	1	
C576,77	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	2	
C578,79	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C580,81	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	2	
C582	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C583	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	1	
C584	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C585	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	1	
C586,87	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C588,89	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	2	
C590,91	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C592,93	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C594,95	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C596,97	ECUM1C474KBM	C.CAPACITOR CH 16V 0.47U	2	
C598,99	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C600,01	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C602,03	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C604,05	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C606-09	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	4	
C610-13	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C614,15	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C616,17	EEVHB1C100	E.CAPACITOR 16V 10U	2	
C618-23	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C651-54	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C657,58	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	2	
C659	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C660	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C661	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C662	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C663-66	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C667	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C668	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C669-71	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
D1-D4	MA8075-H	DIODE	4	
D5,D6	MA142K	DIODE	2	
D7-D9	MA147	DIODE	3	
D201-03	MA147	DIODE	3	
D350-52	LN1251CAL	DIODE	3	
D353,54	MA147	DIODE	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D355,56	MA142K	DIODE	2	
D401,02	MA142K	DIODE	2	
D403-06	MA716	DIODE	4	
D407	MA147	DIODE	1	
D450,51	MA728	DIODE	2	
D452,53	MA736	DIODE	2	
D500,01	MA728	DIODE	2	
D502,03	MA736	DIODE	2	
D504	MA142K	DIODE	1	
D550,51	MA142K	DIODE	2	
D552-63	MA738	DIODE	12	
D564,65	MA147	DIODE	2	
D605,06	MA738	DIODE	2	
D609-12	MA738	DIODE	4	
D651	MA142K	DIODE	1	
D652-55	MA142WK	DIODE	4	
D656	MA147	DIODE	1	
D657	MA142WK	DIODE	1	
D658	MA142WA	DIODE	1	
D659	MA8051-M	DIODE	1	
D660	MA8082-H	DIODE	1	
D661	MA142WK	DIODE	1	
D662	MA142K	DIODE	1	
D663	MAZ80330HL	DIODE	1	
D664	MA8039-H	DIODE	1	
D665	MA8075-M	DIODE	1	
D666	MA738	DIODE	1	
D667	MA142K	DIODE	1	
D668-70	MA738	DIODE	3	
IC1	TVHC14FT	IC	1	
IC2	NJM4558M	IC	1	C0ABBB000044
IC3	TC4052BFN	IC	1	
IC5	NJM4558M	IC	1	C0ABBB000044
IC7	NJM4558M	IC	1	C0ABBB000044
IC8	TC4052BFN	IC	1	
IC61,62	C0ABBB000184	IC	2	
IC63	NJM2901M	IC	1	C0BBCA000008
IC103	TVHC14FT	IC	1	
IC151	NJM4558M	IC	1	C0ABBB000044
IC152	C0ABBB000184	IC	1	
IC153	NJM2903M	IC	1	C0BBBA000019
IC154	TVHC14FT	IC	1	
IC155	NJM4558M	IC	1	C0ABBB000044
IC156	NJM2903M	IC	1	C0BBBA000019
IC157	C0ABBB000184	IC	1	
IC202,03	S80829ANUP	IC	2	
IC204	T74VHCU04F	IC	1	
IC206,07	T74VHC541F	IC	2	
IC301	T74VHC541F	IC	1	
IC351,52	TVHT541FT	IC	2	
IC353	74LCX245SJX	IC	1	
IC354	M62370GP	IC	1	C0FBBD000082
IC355,56	NJM4558M	IC	2	C0ABBB000044
IC357	NJM2904V	IC	1	
IC401	NJM2904V	IC	1	
IC402,03	NJM78L09UA	IC	2	C0CBAHC00002
IC404	XC62FP3302P	IC	1	
IC405	XC62FP5002P	IC	1	
IC406,07	NJM79L09UA	IC	2	C0CABBF00001
IC408	XC62DN5002P	IC	1	
IC501	NJM2903M	IC	1	C0BBBA000019
IC502	C0ABBB000184	IC	1	
IC503	TL1451CNS	IC	1	C0DBAMA00001
IC551	NJM2903M	IC	1	C0BBBA000019
IC552	NJM4558M	IC	1	C0ABBB000044
IC553,54	AN3834K	IC	2	
IC555	NJM4558M	IC	1	C0ABBB000044
IC600,01	AN3890FBS	IC	2	
IC650	TVHT541FT	IC	1	
IC651	C0JBAM000059	IC	1	
IC652	NJM2904V	IC	1	
IC653	TVHC123FT	IC	1	
IC654	TVHT541FT	IC	1	
IC655,56	BA6238AN	IC	2	C0GAK0000007

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC658	NJM2903M	IC	1	C0BBBA000019
ID0	VVVSI3567	SOFTWARE	1	
ID201	VVVSI3566	SOFTWARE	1	
IP201	MN1030F04K	IC	1	
IP300	EPM3256A1410	IC	1	
L401,02	VLF1151A132	COIL	2	
L450	VLQ0407120M	COIL 12UH	1	G0A120HA0007
L451,52	VLQ0504331K	COIL 330UH	2	G0A331F00001
L500,01	VLQ0504331K	COIL 330UH	2	G0A331F00001
P202	VJS3791B020	CONNECTOR (FEMALE)	1	
P300	VJP3125B008	CONNECTOR (MALE)	1	
P700,01	K1KA96B00032	CONNECTOR (MALE)	2	
Q1	2SD601A	TRANSISTOR	1	
Q2,Q3	2SB709A	TRANSISTOR	2	
Q4	2SD601A	TRANSISTOR	1	
Q5	2SB709A	TRANSISTOR	1	
Q6	2SD601A	TRANSISTOR	1	
Q401,02	2SD601A	TRANSISTOR	2	
Q450,51	2SB1073	TRANSISTOR	2	
Q500,01	2SB1174-Q	TRANSISTOR	2	2SB11740Q
Q600	2SB1073	TRANSISTOR	1	
Q601	2SD1119	TRANSISTOR	1	
Q602	2SB1073	TRANSISTOR	1	
Q603	2SD1119	TRANSISTOR	1	
Q604	PU3210	TRANSISTOR	1	PUA3210
Q605	PU3110	TRANSISTOR	1	PUA3110
Q606	2SB1073	TRANSISTOR	1	
Q607	2SD1119	TRANSISTOR	1	
Q650	2SD601A	TRANSISTOR	1	
Q651	2SB710A	TRANSISTOR	1	
Q652	2SB936A-Q	TRANSISTOR	1	
Q653,54	2SB766	TRANSISTOR	2	
QR1-R5	UN5213	TRANSISTOR-RESISTOR	5	
QR6	UN5113	TRANSISTOR-RESISTOR	1	
QR7	UN5215	TRANSISTOR-RESISTOR	1	
QR8	UN5115	TRANSISTOR-RESISTOR	1	
QR350-52	UN5213	TRANSISTOR-RESISTOR	3	
QR500,01	UN5111	TRANSISTOR-RESISTOR	2	
QR550-53	UN5215	TRANSISTOR-RESISTOR	4	
QR600	UN5213	TRANSISTOR-RESISTOR	1	
QR601	UN5217	TRANSISTOR-RESISTOR	1	
QR602	UN5211	TRANSISTOR-RESISTOR	1	
QR651	UN5213	TRANSISTOR-RESISTOR	1	
QR652	UN5113	TRANSISTOR-RESISTOR	1	
QR653,54	UN5213	TRANSISTOR-RESISTOR	2	
QR655,56	UN5214	TRANSISTOR-RESISTOR	2	
QR657	UN5213	TRANSISTOR-RESISTOR	1	
QR658	UN5113	TRANSISTOR-RESISTOR	1	
QR659-63	UN5214	TRANSISTOR-RESISTOR	5	
R1	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R2	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R3	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R5	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R6	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	1	
R7	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R8	ERJ3GEYJ512	M.RESISTOR CH 1/16W 5.1K	1	
R9	ERJ3GEYJ912	M.RESISTOR CH 1/16W 9.1K	1	
R10	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R11	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R12	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R13	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R14	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	1	
R15	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R16	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R17	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R18	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R19	ERJ3GEYJ303	M.RESISTOR CH 1/16W 30K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R20	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	1	
R21	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R22	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R23	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	1	
R24,25	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R26	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R27	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R28	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R29,30	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R31	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R32	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R33	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R34-36	ERJ3RBD471	M.RESISTOR CH 1/16W 470	3	
R37	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R38,39	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	2	
R40,41	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R42	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R43	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R44,45	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	2	
R46	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R47	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R48	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R49	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R50	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R60	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R61	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R62	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R63	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R64	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R65	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R66	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R67	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R68	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R69	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R70	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R71	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R72	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R73	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R74	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R75	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R76-79	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	4	
R80,81	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	2	
R82-85	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	4	
R86-89	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	4	
R90-93	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	4	
R94-97	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	4	
R98	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R99	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R100,01	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R102,03	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R104	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R105	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R106-09	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	4	
R150	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R151	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R152	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R153	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R154,55	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	2	
R156	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R157	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R158	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R159	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R160,61	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	2	
R162	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R163	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R164,65	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	2	
R166	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R167	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R168,69	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	2	
R170	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	1	
R171	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R172	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R173	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R174,75	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R176,77	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R178,79	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	2	
R180,81	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	2	
R182,83	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R184,85	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	2	
R186,87	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	2	
R188,89	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R190,91	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R192,93	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	2	
R194,95	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R201,02	D1H84704A008	COMBI.R-R	2	
R203	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R204	D1H84734A008	COMBI.R-R	1	
R206	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R207	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R209,10	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R211	D1H810140001	COMBI.R-R	1	
R212	ERJ3GEYJ120	M.RESISTOR CH 1/16W 12	1	
R213	D1H84734A008	COMBI.R-R	1	
R214,15	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R216	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R218	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R219	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R220	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R221	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R222	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R223	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R224-27	D1H84704A008	COMBI.R-R	4	
R228	D1H84734A008	COMBI.R-R	1	
R229	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R230	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R233-35	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	3	
R236-38	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R301	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R302	EXBV8V102J	COMBI.R-R 1K	1	
R303	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R305,06	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R307	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R308	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R309,10	D1H84704A008	COMBI.R-R	2	
R311	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R351-53	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R354-59	D1H84704A008	COMBI.R-R	6	
R360-62	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	3	
R363	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R364,65	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	2	
R366,67	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R368,69	ERJ6RBD332	M.RESISTOR CH 1/10W 3.3K	2	
R370,71	ERJ3RBD104	M.RESISTOR CH 1/16W 100K	2	
R372	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R373	ERJ6RBD104	M.RESISTOR CH 1/10W 100K	1	
R374,75	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	2	
R376	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R377	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	1	
R378-80	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R381	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R382	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R383	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R384	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R385	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R386	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R401,02	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R403	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R404	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R405,06	ERJ6RBD391	M.RESISTOR CH 1/10W 390	2	
R407	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R408-11	ERJ6RBD391	M.RESISTOR CH 1/10W 390	4	
R412,13	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R450,51	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	2	
R452,53	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R454,55	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	2	
R457	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
R500,01	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	2	
R502,03	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	2	
R504,05	ERJ12YJ471	M.RESISTOR CH 1/2W 470	2	
R506	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R507	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R508	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R509	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R510	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R511	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R512	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R513	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R514,15	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R516	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R517	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R518	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R519,20	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R521	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R522	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R523	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R524,25	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R526,27	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	2	
R528	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R529	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R530	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R531,32	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R533	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R535	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
R551-53	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
R554	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R555	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R556	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R557	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R558,59	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	2	
R560	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R561	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R562,63	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R564	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R565	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R566,67	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	2	
R568	ERJ12YJ2R2	M.RESISTOR CH 1/2W 2.2	1	
R569	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R570	ERJ12YJ2R2	M.RESISTOR CH 1/2W 2.2	1	
R571	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R572,73	ERJ12YJ2R2	M.RESISTOR CH 1/2W 2.2	2	
R574,75	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	2	
R576	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R577	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R578	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R579	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R580-83	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	4	
R584,85	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	2	
R586,87	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R588,89	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	2	
R600	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R601,02	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R603	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R605,06	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R607,08	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	2	
R609,10	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	2	
R611,12	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R613-18	ERJ8GEYJ1R0	M.RESISTOR CH 1/8W 1	6	
R619	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R651-53	D1H84734A008	COMBI.R-R	3	
R654	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R655	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R656	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R657-60	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	4	
R661	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R662	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R663	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R664	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R666	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R667	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R668	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R669,70	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R671-74	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	
R675	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R676,77	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R678	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R679,80	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R681-83	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R684	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R685	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R686	ERJ8GEYJ681	M.RESISTOR CH 1/8W 680	1	
R687	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R688	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R689,90	ERJ8GEYJ681	M.RESISTOR CH 1/8W 680	2	
R691,92	ERJ8GEYJ181	M.RESISTOR CH 1/8W 180	2	
R693	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R694	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R695	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R696	ERJ8GEYJ102	M.RESISTOR CH 1/8W 1K	1	
R697	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R698	ERJ8GEYJ102	M.RESISTOR CH 1/8W 1K	1	
TG1,G2	EYF6CU	TEST POINT	2	
TG4	EYF6CU	TEST POINT	1	
TP1	EYF6CU	TEST POINT	1	
TP30,31	EYF6CU	TEST POINT	2	
TP80-83	EYF6CU	TEST POINT	4	
TP120-23	EYF6CU	TEST POINT	4	
TP160-63	EYF6CU	TEST POINT	4	
TP201	EYF6CU	TEST POINT	1	
TP230-33	EYF6CU	TEST POINT	4	
TP280-82	EYF6CU	TEST POINT	3	
TP300-02	EYF6CU	TEST POINT	3	
TP305	EYF6CU	TEST POINT	1	
TP320	EYF6CU	TEST POINT	1	
TP400,01	EYF6CU	TEST POINT	2	
TP450,51	EYF6CU	TEST POINT	2	
TP651,52	EYF6CU	TEST POINT	2	
X201	VSX0918	CRYSTAL OSCILLATOR	1	H0J250500005
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■E8	VEP85196A	F8 RF EQ P.C.BOARD0	1	(RTL)
C5001-04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C5021-30	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	10	
C5051-55	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C5101,02	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5103,04	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	2	
C5105,06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5107,08	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5109	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C5111-13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5114	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C5115-17	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5118,19	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5120	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C5121,22	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5123,24	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5125,26	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5127	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C5129	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5130	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5131	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C5133	ECUX1C683KBV	C.CAPACITOR CH 16V 0.068U	1	
C5134-37	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C5138	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5139,40	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	2	
C5141	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C5142	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C5143	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C5145,46	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5147,48	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5149,50	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5151	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5152-54	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5155	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5156	ECUX1H122KBV	C.CAPACITOR CH 50V 1200P	1	
C5157	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	1	
C5158	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5160,61	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5162,63	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	2	
C5201,02	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5203	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5204	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	1	
C5205	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C5206	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C5207	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5208	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C5209,10	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	2	
C5211,12	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5213,14	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5215-17	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5218	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C5219,20	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5301	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5302	ECUM1C224KBN	C.CAPACITOR CH 16V 0.22U	1	
C5303	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5304-11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C5312	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C5313	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C5315	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5316	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C5317-19	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5320	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C5321,22	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5324	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5325	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C5326-41	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	16	
C5351-59	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	9	
C5401,02	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5403,04	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	2	
C5405,06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5407,08	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5409	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C5411-13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5414	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C5415-17	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5418,19	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5420	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C5421,22	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5423,24	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5425,26	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5427	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C5429	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5430	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5431	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C5433	ECUX1C683KBV	C.CAPACITOR CH 16V 0.068U	1	
C5434-37	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C5438	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5439,40	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	2	
C5441	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C5442	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C5443	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5445,46	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5447,48	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5449,50	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5451	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5452-54	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5455	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5456	ECUX1H122KBV	C.CAPACITOR CH 50V 1200P	1	
C5457	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	1	
C5458	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5460,61	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5462,63	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	2	
C5601	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C5602	ECUM1C224KBN	C.CAPACITOR CH 16V 0.22U	1	
C5603	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5604-11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C5612	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C5613	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C5615	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5616	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C5617-19	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5620	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C5621	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5624	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5625	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C5626-41	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	16	
C5702-05	EEVHB1C470	E.CAPACITOR 16V 47U	4	
C5707-10	EEVHB1C470	E.CAPACITOR 16V 47U	4	
C5712	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C5713-15	EEVHB0J470	E.CAPACITOR 6.3V 47U	3	
C5717	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C5721-46	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	26	
D5051	MA142K	DIODE	1	
D5701,02	MA701A	DIODE	2	
D5703-05	MA716	DIODE	3	
IC5001	DS90LV048A	IC	1	
IC5002	74LCX74MTCX	IC	1	
IC5003	74LCX244MTCX	IC	1	
IC5004	DS90LV047A	IC	1	
IC5005	M62370GP	IC	1	C0FBBD000082
IC5006-08	THC4053FT	IC	3	
IC5009	NJM084V	IC	1	
IC5010	NJM082BV	IC	1	
IC5011	TC4S30F	IC	1	C0JBAZ000429
IC5012	74AHC1G32DCK	IC	1	
IC5013	74AHC1G00DCK	IC	1	
IC5014	TC7W125FU	IC	1	
IC5101	MC1495D	IC	1	
IC5102-04	UPC1663G	IC	3	C1CB00000329
IC5105	MN673796	IC	1	
IC5106	NJM082BV	IC	1	
IC5107	DS90LV047A	IC	1	
IC5108	74LCX574MTCX	IC	1	
IC5110	UPD65946GY00	IC	1	
IC5201,02	TC4S30F	IC	2	C0JBAZ000429
IC5203	NJM1496V	IC	1	
IC5204	NJM082BV	IC	1	
IC5401	MC1495D	IC	1	
IC5402-04	UPC1663G	IC	3	C1CB00000329
IC5405	MN673796	IC	1	
IC5406	NJM082BV	IC	1	
IC5408	74LCX574MTCX	IC	1	
IC5701-03	XC62FP5002P	IC	3	
IC5704-06	XC62DN5002P	IC	3	
IC5707-09	XC62FP3002P	IC	3	
L5101	VLQ0163MR27	COIL 0.27UH	1	
L5102	VLQ0163JR47	COIL 0.47UH	1	G1CR47J00004
L5103,04	VLQ0163J101	COIL 100UH	2	
L5105,06	VLQ0163JR22	COIL 0.22UH	2	G1CR22J00002
L5107	VLQ0163J6R8	COIL 6.8UH	1	G1C6R8J00007
L5201,02	VLQ0163J4R7	COIL 4.7UH	2	G1C4R7J00004
L5203,04	VLQ0163JR47	COIL 0.47UH	2	G1CR47J00004
L5401	VLQ0163MR27	COIL 0.27UH	1	
L5402	VLQ0163JR47	COIL 0.47UH	1	G1CR47J00004
L5403,04	VLQ0163J101	COIL 100UH	2	
L5405,06	VLQ0163JR22	COIL 0.22UH	2	G1CR22J00002
L5407	VLQ0163J6R8	COIL 6.8UH	1	G1C6R8J00007
L5701-04	VLF1151A132	COIL	4	
P5001	K1KA96B00032	CONNECTOR (MALE)	1	
Q5101	XN5531	TRANSISTOR-RESISTOR	1	
Q5102,03	2SD1979	TRANSISTOR	2	
Q5104,05	XN5531	TRANSISTOR-RESISTOR	2	
Q5106,07	2SK508K512	TRANSISTOR	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q5108-10	2SC3930	TRANSISTOR	3	
Q5111	XN5531	TRANSISTOR-RESISTOR	1	
Q5112-15	2SC3930	TRANSISTOR	4	
Q5201	XN5531	TRANSISTOR-RESISTOR	1	
Q5202,03	2SD1979	TRANSISTOR	2	
Q5204	2SC3935	TRANSISTOR	1	
Q5205	2SC3930	TRANSISTOR	1	
Q5301,02	2SA1532	TRANSISTOR	2	
Q5303	2SC3930	TRANSISTOR	1	
Q5401	XN5531	TRANSISTOR-RESISTOR	1	
Q5402,03	2SD1979	TRANSISTOR	2	
Q5404,05	XN5531	TRANSISTOR-RESISTOR	2	
Q5406,07	2SK508K512	TRANSISTOR	2	
Q5408-10	2SC3930	TRANSISTOR	3	
Q5411	XN5531	TRANSISTOR-RESISTOR	1	
Q5412-15	2SC3930	TRANSISTOR	4	
Q5601,02	2SA1532	TRANSISTOR	2	
Q5603	2SC3930	TRANSISTOR	1	
QR5051	UN5211	TRANSISTOR-RESISTOR	1	
QR5052	UN5111	TRANSISTOR-RESISTOR	1	
QR5201	UN5111	TRANSISTOR-RESISTOR	1	
R5001,02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R5003-05	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R5006,07	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R5008	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5009	D1H84704A008	COMBI.R-R	1	
R5021,22	D1H84734A008	COMBI.R-R	2	
R5023,24	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5025	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R5026	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R5027,28	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	2	
R5029-31	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	3	
R5032-35	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	
R5036	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5037	D1H810140001	COMBI.R-R	1	
R5038	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5039,40	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5041-43	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R5044	D1H810140001	COMBI.R-R	1	
R5051	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5052	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R5053	D1H84734A008	COMBI.R-R	1	
R5054,55	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R5101	D1H84704A008	COMBI.R-R	1	
R5102,03	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5104,05	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5106,07	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5108	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5109,10	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R5111,12	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5113,14	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5115,16	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5117,18	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R5119,20	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5121	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R5122	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R5123	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R5124	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5125	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R5126	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R5127	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R5128,29	ERJ3RBD151	M.RESISTOR CH 1/16W 150	2	
R5130,31	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5132,33	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5135,36	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R5137,38	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5139,40	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5141,42	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5143,44	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R5145	ERJ3RBD121	M.RESISTOR CH 1/16W 120	1	
R5146	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R5147	ERJ3RBD121	M.RESISTOR CH 1/16W 120	1	
R5148	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5149	ERJ3RBD121	M.RESISTOR CH 1/16W 120	1	
R5150,51	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R5152	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5153	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R5154	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5155	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5156	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5157	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R5158-60	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R5161	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5162,63	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5164,65	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5166	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5167,68	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R5169,70	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5171,72	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5173,74	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5175,76	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R5177	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5178	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R5179	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5180	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5181	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R5182	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5183,84	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5185	ERJ6GEYG391	M.RESISTOR CH 1/10W 390	1	
R5186,87	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5188	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5189,90	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5191,92	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5193	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5194,95	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5196	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5197	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5198	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5201,02	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5203,04	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5205,06	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5207,08	ERJ3RBD101	M.RESISTOR CH 1/16W 100	2	
R5209	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5210,11	ERJ3RED470	M.RESISTOR CH 1/16W 47	2	
R5212	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5213	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5214,15	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R5216,17	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5218	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5219	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5220	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R5221	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5222	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R5223-26	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R5227	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R5228	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5229	D1H84704A008	COMBI.R-R	1	
R5230	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R5231	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R5232	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R5233	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R5234	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R5235	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R5236	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5301,02	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5303	D1H84734A008	COMBI.R-R	1	
R5304,05	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R5309,10	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R5312	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5313	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R5314	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5315,16	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R5317	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R5318	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R5319	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5320	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R5321	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R5322	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5323	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5324	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5325	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R5326	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R5327	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5328	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R5329	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5330	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R5331	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R5332	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R5333	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5334	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R5335	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R5336	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R5337,38	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R5339	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5340-43	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	4	
R5344-47	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R5357	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5358	D1H84704A008	COMBI.R-R	1	
R5359-62	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R5363	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5364	ERJ3RBD753	M.RESISTOR CH 1/16W 75K	1	
R5365	ERJ3RBD393	M.RESISTOR CH 1/16W 39K	1	
R5366	ERJ3RBD203	M.RESISTOR CH 1/16W 20K	1	
R5367	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5368	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R5369	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R5370	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R5371	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	
R5372	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5373	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5381-90	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	10	
R5393	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5397	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5401	D1H84704A008	COMBI.R-R	1	
R5402,03	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5404,05	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5406,07	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5408	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5409,10	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R5411,12	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5413,14	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5415,16	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5417,18	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R5419,20	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5421	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R5422	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R5423	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R5424	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5425	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R5426	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R5427	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R5428,29	ERJ3RBD151	M.RESISTOR CH 1/16W 150	2	
R5430,31	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5432,33	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5435,36	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R5437,38	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5439,40	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5441,42	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5443,44	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R5445	ERJ3RBD121	M.RESISTOR CH 1/16W 120	1	
R5446	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R5447	ERJ3RBD121	M.RESISTOR CH 1/16W 120	1	
R5448	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R5449	ERJ3RBD121	M.RESISTOR CH 1/16W 120	1	
R5450,51	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R5452	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5453	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R5454	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5455	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5456	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5457	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R5458-60	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R5461	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5462,63	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5464,65	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5466	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5467,68	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R5469,70	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5471,72	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5473,74	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5475,76	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R5477	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5478	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R5479	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5480	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5481	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R5482	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5483,84	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5485	ERJ6GEYG391	M.RESISTOR CH 1/10W 390	1	
R5486,87	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5488	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5489,90	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5491,92	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5493	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5494,95	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5496	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5497	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5498	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5609,10	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R5612	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5613	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R5614	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5615,16	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R5617	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R5618	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R5619	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5620	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R5621	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R5622	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5623	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5624	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5625	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R5626	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R5627	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5628	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R5629	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5630	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R5631	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R5632	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R5633	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5634	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R5635	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R5636	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R5637,38	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R5639	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5641,42	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5644,45	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R5657,58	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5659,60	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R5663	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5664	ERJ3RBD753	M.RESISTOR CH 1/16W 75K	1	
R5665	ERJ3RBD393	M.RESISTOR CH 1/16W 39K	1	
R5666	ERJ3RBD203	M.RESISTOR CH 1/16W 20K	1	
R5667	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5668	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R5669	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R5670	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R5671	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	
R5672	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5673	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5674,75	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R5676	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5701-05	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	5	
R5706	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5711-14	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R5715-19	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	5	
R5720-27	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	8	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
RY5051	VSY2176	RELAY	1	K6B2CDA00045
TG5001-04	EYF6CU	TEST POINT	4	
TP5001-03	EYF6CU	TEST POINT	3	
TP5005-10	EYF6CU	TEST POINT	6	
TP5015,16	EYF6CU	TEST POINT	2	
TP5018-20	EYF6CU	TEST POINT	3	
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
	VSC4609	SHIELD CASE	2	
	VWZ0212	THERMAL CONDUCTIVE TUBE	2	
	XYN3+F8	SCREW	2	
	VMP6465	HEAT SINK HOLDER ANGLE B	1	
■ E9	VEP85197A	RF CUE P.C.BOARD0	1	(RTL)
C4002	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4004	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4006	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4008	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4010,11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4012	ECUM1H273KBN	C.CAPACITOR CH 50V 0.027U	1	
C4013	ECHU1C822JB	P.CAPACITOR 16V 8200P	1	
C4014	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4015,16	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4018	ECUX1E223KBV	C.CAPACITOR CH 25V 0.023U	1	
C4020	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4021,22	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4024	EEVHP1C100	E.CAPACITOR 16V 10U	1	
C4025	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4026	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4028	VCC0030	C.CAPACITOR	1	
C4030,31	ECHS1682JZ	P.CAPACITOR 100V 6800P	2	
C4034-36	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C4037	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4038	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4039	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4040	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C4041	ECUX1E223KBV	C.CAPACITOR CH 25V 0.023U	1	
C4042	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C4043	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4044	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C4047,48	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C4049	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4050	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C4051,52	ECHS1682JZ	P.CAPACITOR 100V 6800P	2	
C4053	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C4055	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C5001-03	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5004	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C5006	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5007	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C5008	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5012,13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5014,15	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	2	
C5016,17	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	2	
C5018-25	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C5101	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5102	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C5103-06	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C5107,08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5109,10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5111	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5112	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C5113-16	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C5117,18	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C5119-22	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C5123	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C5124-27	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C5131	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5133-35	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5161	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5163-65	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5201-04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C5205	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C5206	ECUX1H181JCV	C.CAPACITOR CH 50V 180P	1	
C5207	ECUX1H030CCV	C.CAPACITOR CH 50V 3P	1	
C5208	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C5209,10	ECUX1H030CCV	C.CAPACITOR CH 50V 3P	2	
C5211	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5252-54	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5255	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C5256	ECUX1H181JCV	C.CAPACITOR CH 50V 180P	1	
C5257	ECUX1H030CCV	C.CAPACITOR CH 50V 3P	1	
C5258	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C5259,60	ECUX1H030CCV	C.CAPACITOR CH 50V 3P	2	
C5261	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5301	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C5302	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C5305	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C5307,08	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C5312-14	EEVHB1C470	E.CAPACITOR 16V 47U	3	
C5316	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C5321-37	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	17	
D4001	MA142K	DIODE	1	
D4003	MA716	DIODE	1	
D4004,05	MA142K	DIODE	2	
D5001	MA142K	DIODE	1	
D5002-05	MA142WK	DIODE	4	
D5301	MA3J14300L	DIODE	1	
D5302	MA142K	DIODE	1	
D5303	MA716	DIODE	1	
FL4001	EIR7QF012B	TRANSFORMER	1	
IC4001,02	C0ABBB000184	IC	2	
IC4003	NJM78L09UA	IC	1	C0CBAHC00002
IC4005	XC62FP5002P	IC	1	
IC4006	XC62DN5002P	IC	1	
IC4007	NJM78L09UA	IC	1	C0CBAHC00002
IC5001	TVHT244FT	IC	1	
IC5002	TC7WU04FU	IC	1	
IC5003	TVHC02FT	IC	1	
IC5004-07	TC4S30F	IC	4	C0JBAZ000429
IC5101,02	UPC5102GS030	IC	2	C1ZBZ0001316
IC5103,04	TC4S30F	IC	2	C0JBAZ000429
IC5201	NJM082BV	IC	1	
IC5202,03	TC4S69F	IC	2	C0JBAB000138
IC5252,53	TC4S69F	IC	2	C0JBAB000138
IC5301	XC62FP5002P	IC	1	
IC5302,03	XC62DN5002P	IC	2	
L4001	VLQ0423J472	COIL 4700UH	1	
L4004	VLQ0651K181	COIL 180UH	1	G1C181KA0013
L4005	VLQ0651K391	COIL 390UH	1	G1C391KA0013
L5001,02	VLQ0319K330	COIL 33UH	2	G1C330KA0002
L5201,02	VLQ0163J2R2	COIL 2.2UH	2	G1C2R2J00009
L5251,52	VLQ0163J2R2	COIL 2.2UH	2	G1C2R2J00009
L5301-07	VLF1151A132	COIL	7	
P4001	VJP2278	CONNECTOR (MALE)	1	K1KA09A00087
P5001	VJS3375B060	CONNECTOR (FEMALE)	1	K1KB60B00011
P5002	VJS3900C013	CONNECTOR (FEMALE)	1	K1MN13A00023
P5003	VJS3900C010	CONNECTOR (FEMALE)	1	K1MN10A00034
Q4001	2SB779-R	TRANSISTOR	1	
Q4003	2SD874-R	TRANSISTOR	1	
Q4005	2SB792-R	TRANSISTOR	1	
Q4006,07	2SD1149-R	TRANSISTOR	2	
Q4008,09	2SD1979	TRANSISTOR	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q4010	2SB779-R	TRANSISTOR	1	
Q4011	2SD874-R	TRANSISTOR	1	
Q5001-04	2SC3935	TRANSISTOR	4	
Q5005,06	2SC2954	TRANSISTOR	2	
Q5007	2SA1532	TRANSISTOR	1	
Q5008	2SC2954	TRANSISTOR	1	
Q5009,10	2SK508K512	TRANSISTOR	2	
Q5011-14	XN1504	TRANSISTOR-RESISTOR	4	
Q5101,02	XN1504	TRANSISTOR-RESISTOR	2	
Q5103	2SA1532	TRANSISTOR	1	
Q5111	XN6537	TRANSISTOR-RESISTOR	1	
Q5112,13	2SC3930	TRANSISTOR	2	
Q5114,15	2SD1979	TRANSISTOR	2	
Q5116,17	XP6534	TRANSISTOR-RESISTOR	2	
Q5121	XN6537	TRANSISTOR-RESISTOR	1	
Q5122,23	2SC3930	TRANSISTOR	2	
Q5124,25	2SD1979	TRANSISTOR	2	
Q5126,27	XP6534	TRANSISTOR-RESISTOR	2	
Q5201	2SD601A	TRANSISTOR	1	
Q5202	2SB709A	TRANSISTOR	1	
Q5203,04	2SC3735B35	TRANSISTOR	2	
Q5251	2SD601A	TRANSISTOR	1	
Q5252	2SB709A	TRANSISTOR	1	
Q5253,54	2SC3735B35	TRANSISTOR	2	
Q5301	2SB1218A	TRANSISTOR	1	
Q5302	2SD1819A-R	TRANSISTOR	1	
QR4001	UN5113	TRANSISTOR-RESISTOR	1	
QR4003	UN5213	TRANSISTOR-RESISTOR	1	
QR4005	UN5213	TRANSISTOR-RESISTOR	1	
QR4006	UN5215	TRANSISTOR-RESISTOR	1	
QR4007,08	UN5113	TRANSISTOR-RESISTOR	2	
QR4009,10	UN5213	TRANSISTOR-RESISTOR	2	
QR5001	UN5111	TRANSISTOR-RESISTOR	1	
QR5002	UN5211	TRANSISTOR-RESISTOR	1	
QR5003,04	UN5111	TRANSISTOR-RESISTOR	2	
QR5101	UN5113	TRANSISTOR-RESISTOR	1	
QR5201	UN5211	TRANSISTOR-RESISTOR	1	
QR5251	UN5211	TRANSISTOR-RESISTOR	1	
QR5301	UN5211	TRANSISTOR-RESISTOR	1	
R4001	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4002	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R4003	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R4005	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R4006	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4007	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4009	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R4010	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4011	ERJ8GEYJ1R0	M.RESISTOR CH 1/8W 1	1	
R4013	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R4014	ERJ3GEYJ390	M.RESISTOR CH 1/16W 39	1	
R4017	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4020	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R4021	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4022	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4023,24	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R4025	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R4026	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4027	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4028	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4029	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4030	ERJ6GEYJ1R0	M.RESISTOR CH 1/10W 1	1	
R4032	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R4033	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4034	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R4035	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4036	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4037	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4038	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4039	ERJ8GEYJ1R0	M.RESISTOR CH 1/8W 1	1	
R4040	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R4041	ERJ3GEYJ390	M.RESISTOR CH 1/16W 39	1	
R4042	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4043,44	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4045	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R4046	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4047,48	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R4049	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4050	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4051	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5001	D1H84734A008	COMBI.R-R	1	
R5002	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R5003	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5004	D1H810140001	COMBI.R-R	1	
R5005,06	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R5011	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5012,13	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5014,15	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R5016,17	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5018,19	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	2	
R5020,21	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R5022,23	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	2	
R5024	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R5025	ERJ12YJ270	M.RESISTOR CH 1/2W 270	1	
R5028-31	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	4	
R5032,33	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R5034	ERJ6RED820	M.RESISTOR CH 1/10W 82	1	
R5035	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5036-39	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	4	
R5040	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5041,42	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R5043-46	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R5050	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5051,52	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R5053-56	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R5101	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R5111	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R5112-15	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	4	
R5116	D1H84734A008	COMBI.R-R	1	
R5117,18	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	2	
R5119-21	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R5131,32	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5133	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R5134	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R5135,36	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5137,38	ERJ3RBD561	M.RESISTOR CH 1/16W 560	2	
R5139,40	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5141	ERJ3RBD181	M.RESISTOR CH 1/16W 180	1	
R5142	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R5143	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R5144,45	ERJ3RBD561	M.RESISTOR CH 1/16W 560	2	
R5146,47	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5148,49	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5150	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R5151-54	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	4	
R5155	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5156	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R5161,62	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5163	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R5164	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R5165,66	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5167,68	ERJ3RBD561	M.RESISTOR CH 1/16W 560	2	
R5169,70	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5171	ERJ3RBD181	M.RESISTOR CH 1/16W 180	1	
R5172	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R5173	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R5174,75	ERJ3RBD561	M.RESISTOR CH 1/16W 560	2	
R5176,77	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5178,79	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5180	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R5181-84	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	4	
R5186	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R5202	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5203	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5205	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5206	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5207	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R5208	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5209	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5210	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R5211	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5212	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R5213	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5214	ERJ6RED270	M.RESISTOR CH 1/10W 27	1	
R5215,16	ERJ3RED560	M.RESISTOR CH 1/16W 56	2	
R5217	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5218	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R5219	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5220	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R5252	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5253	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5255	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5256	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5257	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R5258	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5259	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R5260	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R5261	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5262	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R5263	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5264	ERJ6RED270	M.RESISTOR CH 1/10W 27	1	
R5265,66	ERJ3RED560	M.RESISTOR CH 1/16W 56	2	
R5267	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5268	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R5269	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5270	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R5301	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5302	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R5303	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R5304	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5305	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5311,12	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R5313-17	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	5	
RY4001	VSY2176	RELAY	1	K6B2CDA00045
RY5001	VSY2176	RELAY	1	K6B2CDA00045
RY5301	VSY2176	RELAY	1	K6B2CDA00045
T4001	VLT0729	TRANSFORMER	1	
T4003	VLT0729	TRANSFORMER	1	
TG4001	EYF6CU	TEST POINT	1	
TG5001	EYF6CU	TEST POINT	1	
TP4001,02	EYF6CU	TEST POINT	2	
TP4005,06	EYF6CU	TEST POINT	2	
TP5001	EYF6CU	TEST POINT	1	
VR4001	EVMEGSA00B54	V.RESISTOR 50K	1	
		MISCELLANEOUS		
	VMP5846	RF HOLDER ANGLE	1	
	VYQ1745	SHIELD CASE (UPPER) ASS'Y	1	
	VSC4933	SHILD HOLDER ANGLE	1	
	VSC4934	SHIELD ANGLE	1	
	VSC4928	EARTH FINGER	1	
	XSN26+3	SCREW	1	
	VSC4386	RF SHIELD CASE (MIDDLE)	1	
	XTV3+6FFR	SCREW	2	
	VSC4437	RF SHIELD CASE (LOWER)	1	
	VMZ2588	RF BARRIER	1	
■ E10	VEP80C14A	MOTHER P.C.BOARD0	1	(RTL)
C1,C2	ECA1CHG682	E.CAPACITOR 16V 6800U	2	
D1	21DQ04	DIODE	1	B0JAME000021

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L1,L2	VLP0017	COIL	2	J0JHB0000010
P1	K1KB96A00048	CONNECTOR (FEMALE)	1	
P3-P9	K1KB96A00048	CONNECTOR (FEMALE)	7	
P11-15	K1KB96A00048	CONNECTOR (FEMALE)	5	
P16	VJP3375A060	CONNECTOR (MALE)	1	K1KA60A00083
P17	K1KB96A00048	CONNECTOR (FEMALE)	1	
P18,19	K1KA08A00283	CONNECTOR (MALE)	2	
P20	K1KB22B00010	CONNECTOR (FEMALE)	1	
P21	VJP3454B096	CONNECTOR (MALE)	1	K1KA96B00021
		MISCELLANEOUS		
	VKC0392	SPACER	1	
	VMP6815	JACK PB GUIDE ANGLE (B)	1	
	VMP6817	MOTHER ANGLE (B)	1	
	VMP6816	MOTHER ANGLE (A)	1	
	VMP6824	MOTHER ANGLE (C)	1	
	XYE3+EF8FZ	SCREW	8	
	XTV3+6F	SCREW	2	
	VMX2541	P.C.BOARD SPACER	1	
■ E11	VEP82239A	MECHA I/F P.C.BOARD0	1	(RTL)
C1,C2	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C3	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C4	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C6	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C8	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C9,10	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C11,12	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C14,15	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C16	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C17	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C151-59	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	9	
C160-63	EEVHB1C470	E.CAPACITOR 16V 47U	4	
C164,65	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C201-03	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	3	
D1	MA147	DIODE	1	
D153,54	MA716	DIODE	2	
IC1,C2	0P177GS	IC	2	
IC3	NJM4580ED	IC	1	C0ABBB000123
IC4-C6	NJM4558M	IC	3	C0ABBB000044
IC151	NJM78L09UA	IC	1	C0CBAHC00002
IC152	NJM79L09UA	IC	1	C0CABBF00001
IC153-55	TVHC14FT	IC	3	
IC156,57	TVHC165FT	IC	2	
L151,52	VLF1151A132	COIL	2	
P11	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P12	VJP3172D005	CONNECTOR (MALE)	1	K1KA05B00053
P13	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P14	VJP3172D003	CONNECTOR (MALE)	1	K1KA03B00006
P15	VJP3518B002	CONNECTOR (MALE)	1	
P16	VJP3518B003	CONNECTOR (MALE)	1	
P17	VJS3801D015	CONNECTOR (FEMALE)	1	
P18	VJP3518B002	CONNECTOR (MALE)	1	
P19	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P20	VJP3518B003	CONNECTOR (MALE)	1	
P21	VJP3518B002	CONNECTOR (MALE)	1	
P22	VJP3172D004	CONNECTOR (MALE)	1	K1KA04B00007
P24	VJP3518B002	CONNECTOR (MALE)	1	
P25	VJP1230T	CONNECTOR (MALE) 3P	1	
P26	VJP1236T	CONNECTOR (MALE) 9P	1	K1KA09A00023
P30	VJP3172D003	CONNECTOR (MALE)	1	K1KA03B00006
P32	VJP3172D004	CONNECTOR (MALE)	1	K1KA04B00007

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P33	VJS3406B015	CONNECTOR (FEMALE)	1	
P34,35	VJS2889A017	CONNECTOR (FEMALE)	2	K1MN17A00008
P36	VJS3406B019	CONNECTOR (FEMALE)	1	
P48	VJP3125B002	CONNECTOR (MALE)	1	K1KA02B00111
P151	VJS2899A096	CONNECTOR (FEMALE)	1	K1KB96A00035
Q1	2SB1218A-R	TRANSISTOR	1	
Q101-08	B1DZED000002	TRANSISTOR	8	
QR101-12	UN5213	TRANSISTOR-RESISTOR	12	
R1,R2	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R5	ERJ3RBD104	M.RESISTOR CH 1/16W 100K	1	
R6	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R7,R8	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R9	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R10	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	1	
R11	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	1	
R12	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R13	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R14	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R15	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R16	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R17	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R18	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R19	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R20	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R21	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R22	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R23	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R24	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R25	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R26	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R27	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R101-04	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	4	
R105-07	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	3	
R108,09	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R110	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R111,12	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R113-16	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	4	
R151-64	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	14	
R165	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R166,67	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R168,69	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R201,02	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	2	
VR1	EVMECSA00B24	V.RESISTOR 20K	1	
VR2	EVMECSA00B54	V.RESISTOR 50K	1	
VR201,02	EVMECSA00B24	V.RESISTOR 20K	2	
■ E12	VEP82240A	MECHA I/F 2 P.C.BOARD0	1	(RTL)
P1001	VJP3454B096	CONNECTOR (MALE)	1	K1KA96B00021
P1002	K1KA96B00032	CONNECTOR (MALE)	1	
		MISCELLANEOUS		
	VMP6808	CONNECTION PB ANGLE	1	
	XTV3+6F	SCREW	2	
■ E13	VEP81221B	POWER 1 P.C.BOARD0	1	(RTL)
C1002,03	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C1004	ECHU1H471GB	P.CAPACITOR 50V 470P	1	
C1005	ECUM1C104KBN	C.CAPACITOR CH 16V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1006	ECA1HXL010	E.CAPACITOR 50V 1U	1	
C1007	ECQE6473KF	P.CAPACITOR 630V 0.047U	1	
C1008	VCK0106K221	C.CAPACITOR 220P	1	
C1009	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	1	
C1010	ECUX1H562KBV	C.CAPACITOR CH 50V 5600P	1	
C1011	ECA1VXL470	E.CAPACITOR 35V 47U	1	
C1012	ECA1HXL330	E.CAPACITOR 50V 33P	1	
C1015	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1017	ECJ2XB1H332K	C.CAPACITOR CH 50V 3300P	1	
C1101	ECA1HXL100	E.CAPACITOR 50V 10U	1	
⚠ C1107	ECQU2A474ML	P.CAPACITOR 100V 0.47U	1	
⚠ C1109	VCK0262M102A	C.CAPACITOR 1000P	1	F1BAH1020001
C1110,11	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C1114	ECUM1E474ZFM	C.CAPACITOR CH 25V 0.47U	1	
C1116	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C1117	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1119	ECQV1H684JF	P.CAPACITOR 50V 0.68U	1	
⚠ C1120	VCK0262M102A	C.CAPACITOR 1000P	1	F1BAH1020001
C1122	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1123	ECQE2W225KC	P.CAPACITOR 450V 2.2U	1	
C1124	EEUFC1H121L	E.CAPACITOR 50V 120U	1	
C1125	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C1126	ECUX1H392KBV	C.CAPACITOR CH 50V 3900P	1	
C1127	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1128	ECQF6222JZ	P.CAPACITOR 630V 2200P	1	
C1129	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1130,31	VCK0106K471	C.CAPACITOR 470P	2	
C1132	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C1133,34	VCK0106K471	C.CAPACITOR 470P	2	
C1135	ECEC2WC151CB	E.CAPACITOR 450V 150P	1	
C1138	ECA1HXL100	E.CAPACITOR 50V 10U	1	
⚠ C1139	VCK0262M102A	C.CAPACITOR 1000P	1	F1BAH1020001
C1140	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1201-10	ECQE6473KF	C.CAPACITOR 1000P	10	
C1211-14	EEUFC1A682	E.CAPACITOR 10V 6800U	4	
C1215	EEUFC1E182	E.CAPACITOR 25V 1800U	1	
C1217	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	1	
C1218	EEUFC1A682	E.CAPACITOR 10V 6800U	1	
C1219,20	EEUFC1E102LE	E.CAPACITOR 25V 1000U	2	
C1221	EEUFC1A682	E.CAPACITOR 10V 6800U	1	
C1222	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C1223	ECA1EXL101	E.CAPACITOR 25V 100U	1	
C1224-26	ECA1CXL101	E.CAPACITOR 16V 100U	3	
C1227,28	ECA1EXL101	E.CAPACITOR 25V 100U	2	
C1229,30	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C1231	ECA1CXL101	E.CAPACITOR 16V 100U	1	
C1232	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C1233	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1234	ECA1HXL100	E.CAPACITOR 50V 10U	1	
C1235	ECA1HXL2R2	E.CAPACITOR 50V 2.2U	1	
C1236,37	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C1239	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C1240,41	ECQE6473KF	C.CAPACITOR 1000P	2	
C1242	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1243	ECA1EXL101	E.CAPACITOR 25V 100U	1	
C1244	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
D1001	MA142WA	DIODE	1	
D1002	MA142K	DIODE	1	
D1003	MA3240-H	DIODE	1	
D1005	EG01C	DIODE	1	B0HAGV000001
D1006	MA3051-M	DIODE	1	MAZ30510ML
D1007	SFPL-52	DIODE	1	
D1008	MA3200-M	DIODE	1	
D1009,10	SFPL-52	DIODE	2	
D1013	SFPL-52	DIODE	1	
D1101,02	MA3200-M	DIODE	2	
D1103	MA3068-M	DIODE	1	
D1104	MA142K	DIODE	1	
D1105,06	ERA15-08	DIODE	2	B0AAMT000001
D1107	MA142K	DIODE	1	
D1108	MA1070400L	DIODE	1	
D1109	RBV606	DIODE	1	
D1110	MA701A	DIODE	1	
D1111,12	MA3200-M	DIODE	2	

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D1113-15	SFPL-52	DIODE	3	
D1116	MA3068-M	DIODE	1	
D1117	MA142K	DIODE	1	
D1118	FML-G26S	DIODE	1	
D1119,20	ERA15-08	DIODE	2	B0AAMT000001
D1201	FMBG24H	DIODE	1	
D1202,03	FML-G12SP	DIODE	2	
D1204	D20LC20U	DIODE	1	B0HBSM000021
D1205	FML-G12SP	DIODE	1	
D1206	MA142WA	DIODE	1	
D1207	FML-G12SP	DIODE	1	
D1208	MA142K	DIODE	1	
D1209	MA3160-L	DIODE	1	
D1210	MA142K	DIODE	1	
D1211	MA3100-M	DIODE	1	
D1212	MA3051-M	DIODE	1	MAZ30510ML
D1213	MA3240-H	DIODE	1	
D1214	MA3160-L	DIODE	1	
D1215	MA3100-M	DIODE	1	
D1216	MA142K	DIODE	1	
D1218	MA142K	DIODE	1	
D1219	MA3027-H	DIODE	1	
D1221	MA3027-H	DIODE	1	
D1222-24	MA142K	DIODE	3	
IC1001	FA5311BP	IC	1	C0DAAZZ00002
IC1101	MC33262P	IC	1	C0DAZZZ00013
IC1102	M51945BL	IC	1	C0EAB0000004
IC1103	M51951BL	IC	1	C0EAH0000030
IC1201	UPC1944J	IC	1	C0DAZLB00001
IC1202	C0DAEZH00010	IC	1	
IC1203	UPC1093J	IC	1	C0DAEMC00002
IC1204	NJM2903M	IC	1	C0BBBA000019
IC1205	PQ30RV31	IC	1	
L1001	VLP0074	COIL	1	J0JDB0000002
⚠ L1102,03	ELF21N020A	FILTER	2	
L1104	VLQ0820	COIL	1	
L1201	VLQ0655K220	COIL 22UH	1	
L1202	VLQ0826M4R7	COIL 4.7UH	1	
L1203	VLQ0826M100	COIL 10UH	1	
L1204,05	VLQ0826K220	COIL 22UH	2	
L1206	VLQ0655K220	COIL 22UH	1	
P1103	VJP2638	CONNECTOR (MALE)	1	K1KA02A00112
P1201,02	K1KB08A00077	CONNECTOR (FEMALE)	2	
⚠ Q1001	B1DEFV000001	TRANSISTOR	1	
⚠ Q1002-04	PS2561L1V1WL	TRANSISTOR	3	B3QAZ0000030
Q1101	2SJ278	TRANSISTOR	1	
Q1102	TM1661S-L	DIODE	1	
Q1103	B1DEGR000013	TRANSISTOR	1	
Q1201	XN4501	TRANSISTOR-RESISTOR	1	
Q1202	XN4401	TRANSISTOR-RESISTOR	1	
Q1203	XN4501	TRANSISTOR-RESISTOR	1	
QR1001	UN2213	TRANSISTOR-RESISTOR	1	
QR1002	UN2111	TRANSISTOR-RESISTOR	1	
QR1101	UN2112	TRANSISTOR-RESISTOR	1	
QR1102	UN2215	TRANSISTOR-RESISTOR	1	
QR1103	UN2113	TRANSISTOR-RESISTOR	1	
QR1104,05	UN2213	TRANSISTOR-RESISTOR	2	
QR1201	UN2211	TRANSISTOR-RESISTOR	1	
QR1202	UN2214	TRANSISTOR-RESISTOR	1	UNR221400L
QR1203	UN2111	TRANSISTOR-RESISTOR	1	
QR1204	UN2214	TRANSISTOR-RESISTOR	1	UNR221400L
QR1205	UN2111	TRANSISTOR-RESISTOR	1	
QR1206,07	UN2213	TRANSISTOR-RESISTOR	2	
R1002	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1003	VRT0142	THERMISTOR	1	D4DDB3310005
R1004	ERW1PKR33	W.RESISTOR 1W 0.33	1	
R1005	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R1006	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R1007	ERJ3GEYJ225	M.RESISTOR CH 1/16W 2.2M	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1008,09	ERG3SJ333	M.RESISTOR 3W 33K	2	
R1010	ERG2SJ180	M.RESISTOR 2W 18	1	
R1011	ERJ6RBD241	M.RESISTOR CH 1/10W 240	1	
R1012	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R1013	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1014	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R1015	ERJ12YJ220	M.RESISTOR CH 1/2W 22	1	
R1016,17	ERJ12YJ224	M.RESISTOR CH 1/2W 220K	2	
R1018	ERJ6RBD271	M.RESISTOR CH 1/10W 270	1	
R1019	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R1020	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	
R1021	ERJ14YJ100	M.RESISTOR CH 1/4W 10	1	
R1022	ERJ14YJ4R7	M.RESISTOR CH 1/4W 4.7	1	
R1101,02	ERG3SJ333	M.RESISTOR 3W 33K	2	
R1103	ERJ6RBD273	M.RESISTOR CH 1/10W 27K	1	
R1104	ERJ6RBD183	M.RESISTOR CH 1/10W 18K	1	
R1105	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R1107	ERJ3RED224	M.RESISTOR CH 1/16W 220K	1	
R1108	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1109	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R1110	ERJ3RED334	M.RESISTOR CH 1/16W 330K	1	
R1112-14	ERJ12YJ224	M.RESISTOR CH 1/2W 220K	3	
R1115,16	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	
R1117,18	ERJ14YJ474	M.RESISTOR CH 1/4W 470K	2	
R1119	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1121,22	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R1123,24	ERJ12YJ683	M.RESISTOR CH 1/2W 63K	2	
⚠ R1125	ERU5TEJ100	F.RESISTOR 5W 10	1	
R1127-30	ERJ12YJ683	M.RESISTOR CH 1/2W 63K	4	
R1131	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1132	ERG2SJ221	M.RESISTOR 2W 220	1	
R1133	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R1134	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R1135	ERJ12YJ100	M.RESISTOR CH 1/2W 10	1	
R1136	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R1137	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R1139	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1140	ERJ14YJ100	M.RESISTOR CH 1/4W 10	1	
R1141	ERJ14YJ220	M.RESISTOR CH 1/4W 22	1	
R1142,43	ERJ12YJ224	M.RESISTOR CH 1/2W 220K	2	
R1144	ERJ12YJ154	M.RESISTOR CH 1/2W 150K	1	
R1145	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1146	ERJ12YJ472	M.RESISTOR CH 1/2W 4.7K	1	
R1147	ERG2SJ220	M.RESISTOR 2W 22	1	
R1148	ERF2TKR15	W.RESISTOR 2W 0.15	1	
R1150-52	ERJ12YJ154	M.RESISTOR CH 1/2W 150K	3	
R1153	ERJ6RBD272	M.RESISTOR CH 1/10W 2.7K	1	
R1154	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R1155	ERG2SJ220	M.RESISTOR 2W 22	1	
R1161	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1165	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R1167-69	ERJ12YJ154	M.RESISTOR CH 1/2W 150K	3	
R1201	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	1	
R1202,03	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R1204-08	ERG2SJ220	M.RESISTOR 2W 22	5	
R1209	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R1210,11	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R1212	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R1213	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R1214	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1215	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1216,17	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R1218,19	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	2	
R1220	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1221	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R1222	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R1223	ERJ3RBD621	M.RESISTOR CH 1/16W 620	1	
R1224	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R1225	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1226	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1227	VRT0033	THERMISTOR	1	D4DDB3310004
R1228,29	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	2	
R1230	ERX2SJ0R1	M.RESISTOR 2W 0.1	1	
R1231	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1232	ERX2SJ0R1	M.RESISTOR 2W 0.1	1	

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1233	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R1234	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1235	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1237-39	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R1240	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R1241	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R1242	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1244	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R1245	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1247	ERG2SJ470	M.RESISTOR 2W 47	1	
R1248	ERG2SJ221	M.RESISTOR 2W 220	1	
R1249	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R1250,51	ERJ12YJ224	M.RESISTOR CH 1/2W 220K	2	
R1252	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1253	ERG2SJ220	M.RESISTOR 2W 22	1	
R1254	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R1255	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
⚠ T1001	ETS42AE326AD	TRANSFORMER	1	
VR1102	EVMEASA00B52	V.RESISTOR 500	1	
VR1201	EVMEASA00B13	V.RESISTOR 1K	1	
		MISCELLANEOUS		
	VJR1008	EARTH LUG	4	
⚠	VMZ1608	CAPACITOR TUBE	3	
	VSC5221	HEAT SINK (A)	1	
	VSC5222	HEAT SINK B	1	
	VLP0336	FERRITE CORE	4	
	VLP0394	FERRITE BEAD	3	J0KE00000032
	VMZ2919	BARRIER	1	
	XYN3+F6FZS	SCREW	2	
	XYN3+F8FZS	SCREW	9	
	XYN3+F10	SCREW	3	
	VJF1348	CLAMPER	1	
■ E14	VEP81222A	POWER 2 P.C.BOARD0	1	(RTL)
⚠ C1502	VCK0262K101A	C.CAPACITOR 100P	1	F1BAH101A001
⚠ C1503	ECQU2A224ML	P.CAPACITOR 100V 0.22U	1	
⚠ C1504	VCK0262K101A	C.CAPACITOR 100P	1	F1BAH101A001
⚠ L1501	ELF19N020A	FILTER	1	
⚠ P1501	VJS2985	CONNECTOR (FEMALE)	1	K2AH3H000012
P1502	VJP2638	CONNECTOR (MALE)	1	K1KA02A00112
⚠ R1506	ERC12AGM334	S.RESISTOR 1/2W 330K	1	
		MISCELLANEOUS		
⚠	VMZ1608	CAPACITOR TUBE	2	
	EYF52BC	FUSE HOLDER	2	
⚠	VSF0106C31H	FUSE	1	
	VJR1008	EARTH LUG	2	
	VEE9627	FG CABLE	1	
⚠	VMP6812	AC IN HOLDER ANGLE	1	
	XSN3+6FZ	SCREW	2	
	XYN3+F8	SCREW	2	
	XYN4+E6VW	SCREW	1	
⚠	VMZ0429	FUSE COVER	1	
■ E15	VEP80C13A	AV JACK P.C.BOARD0	1	(RTL)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C2	EEAHB1C470B	E.CAPACITOR 16V 47U	1	
C3,C4	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5	EEAHB1C470B	E.CAPACITOR 16V 47U	1	
C6-C8	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C9,10	EEAHB1C470B	E.CAPACITOR 16V 47U	2	
C11,12	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C13,14	EEAHB1C470B	E.CAPACITOR 16V 47U	2	
C15-23	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	9	
C24,25	EEAHB1C470B	E.CAPACITOR 16V 47U	2	
C26	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C27,28	EEAHB1C470B	E.CAPACITOR 16V 47U	2	
C150	EEAHB1C470B	E.CAPACITOR 16V 47U	1	
C151,52	ECUM1H104KBN	C.CAPACITOR CH 50V 0.1U	2	
C155	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C157	ECUM1H104KBN	C.CAPACITOR CH 50V 0.1U	1	
C158	EEAHB1C470B	E.CAPACITOR 16V 47U	1	
C160	EEAHB1C470B	E.CAPACITOR 16V 47U	1	
D1	MA716	DIODE	1	
IC1	NJM78L09UA	IC	1	C0CBAHC00002
IC2	NJM79L09UA	IC	1	C0CABBF00001
IC3	XC62FP5002P	IC	1	
IC4	XC62DN5002P	IC	1	
IC5	XC62FP5002P	IC	1	
IC6	XC62DN5002P	IC	1	
IC7	NJM360M	IC	1	C0BBZB000001
IC150	C0JBAB000243	IC	1	
J1	VJS3902	CONNECTOR (FEMALE)	1	K1CB204H0002
J2	VJS3901	CONNECTOR (FEMALE)	1	K1CB204H0004
J3,J4	K4BA04A00002	TERMINAL	2	
J5-J7	VJS3902	CONNECTOR (FEMALE)	3	K1CB204H0002
J8	VJS3901	CONNECTOR (FEMALE)	1	K1CB204H0004
J9	VJS3902	CONNECTOR (FEMALE)	1	K1CB204H0002
J10	VJP3414A009	CONNECTOR (MALE)	1	K1FB109A0016
J12	VJP3414A015	CONNECTOR (MALE)	1	K1FB115A0008
J13	VJP3414A025	CONNECTOR (MALE)	1	K1FB125A0011
J16	VJS3417	CONNECTOR (FEMALE)	1	K1AB103A0007
J17	VJP3417	CONNECTOR (MALE)	1	K1AA103A0003
J18	K2HA101A0012	JACK	1	
J20	VJS3417	CONNECTOR (FEMALE)	1	K1AB103A0007
J21	VJP3417	CONNECTOR (MALE)	1	K1AA103A0003
L2	VLP0145	COIL	1	
L4	VLP0145	COIL	1	
L6	VLP0145	COIL	1	
L8,L9	VLP0145	COIL	2	
L11	VLP0145	COIL	1	
L13	VLP0145	COIL	1	
L15	VLP0145	COIL	1	
L17	VLP0145	COIL	1	
L18	VLQ0426J1R8	COIL 1.8UH	1	G1C1R8J00007
L150	VLQ0319K470	COIL 47UH	1	G1C470K00013
P1	VJS3814	CONNECTOR (FEMALE)	1	K1KB96A00037
P2	VJP1243T	CONNECTOR (MALE) 3P	1	
Q1,Q2	2SC2295-C	TRANSISTOR	2	
Q150,51	2SC3930	TRANSISTOR	2	
Q152	2SA1532	TRANSISTOR	1	
Q153	2SC3930	TRANSISTOR	1	
Q154	2SA1532	TRANSISTOR	1	
R1-R3	ERJ6GEYJ820	M.RESISTOR CH 1/10W 82	3	
R4	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R6	ERJ6GEYJ820	M.RESISTOR CH 1/10W 82	1	
R7	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R8	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R9	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R10	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	1	
R11	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R12	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R13	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R14	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R15	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	1	
R20	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R21	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	1	
R22	ERJ6GEYJ820	M.RESISTOR CH 1/10W 82	1	
R23-25	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	3	
R26	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R30-45	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	16	
R101	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R153,54	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R155	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R156	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R157,58	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	2	
R159	ERJ6GEYG750	M.RESISTOR CH 1/10W 75	1	
SW1,W2	VSS0307	SWITCH	2	K0D122A00105
		MISCELLANEOUS		
	VMP4866	D SUB ANGLE	1	
	VXQ0102	SCREW	6	K1YE50000008
	XYN26+F8	SCREW	2	
	VMP6814	JACK PB GUIDE ANGLE (A)	1	
	VSC5248	EARTH ANGLE	2	
■ E16	VEP86315A	FRONT P.C.BOARD0	1	(RTL)
C1-C7	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C50,51	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	2	
C52	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C53	EEUFC1J470	E.CAPACITOR 6.3V 47P	1	
C54	EEUFC1A681	E.CAPACITOR 10V 680U	1	
C55,56	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C57	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C58	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C60	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C104	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C105	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C106	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C107	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C108-13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C114,15	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C116,17	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C119	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C120	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C121	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
D1	LN28RCPP	LED	1	
D2-D5	LN38GCPP	LED	4	
D6	MA716	DIODE	1	
D7,D8	LN48YCPP	LED	2	
D9,10	LN38GCPP	LED	2	
D25	MA4300-M	DIODE	1	
D26	MA185	DIODE	1	
D27	MA4062M	DIODE	1	MAZ40620M
D28,29	MA166	DIODE	2	
D101-07	MA716	DIODE	7	
DP1	VSL0489	DISPLAY	1	A2BA00000191
IC1-C4	TVHC165FT	IC	4	
IC5	TC74HC4094F	IC	1	C0JBAQ000104
IC6	TC74HC4050AF	IC	1	
IC7	UPD16310GF	IC	1	
IC8	TVHC123FT	IC	1	
IC9	XC62FP5002P	IC	1	
IC10	NJM2904M	IC	1	
IC11	NJM78L09UA	IC	1	C0CBAHC00002
IC12	NJM79L09UA	IC	1	C0CABBF00001
IC13	TVHT04FT	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC14	NJM78L09UA	IC	1	C0CBAHC00002
L1,L2	VLF1151A132	COIL	2	
P1	K1KA22C00001	CONNECTOR (MALE)	1	
P2	K1KB08C00003	CONNECTOR (FEMALE)	1	
Q6,Q7	2SC1815Y	TRANSISTOR	2	B1AACF000024
Q8	2SC3074Y	TRANSISTOR	1	B1BADF000002
QR1-R7	UN2214	TRANSISTOR-RESISTOR	7	UNR221400L
R1-32	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	32	
R33-37	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	5	
R38	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R40	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R50	ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R51	ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R52	ERDS2TJ220	C.RESISTOR 1/4W 22	1	
R53	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R54	ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R55	ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R57	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R58	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R59,60	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R61,62	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R100	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R101	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R102	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R103	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R104	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R105	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R106	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R107	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R108,09	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R110	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R111	D1H84734A008	COMBI.R-R	1	
R112,13	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R114	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
R116	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R118	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
SW2-W8	VSP1005	SWITCH	7	K0H1BA000148
SW9-16	VSP1031	SWITCH	8	K0H1BA000328
SW17-19	VSS0280	SWITCH	3	K0D123A00061
SW20	VSS0346	SWITCH	1	K0D123A00043
SW21,22	VSS0280	SWITCH	2	K0D123A00061
SW23	VSS0346	SWITCH	1	K0D123A00043
TR1	VLT0884	TRANSFORMER	1	G4ZZ00000366
VR1,R2	EVUFSA003B14	V.RESISTOR 10K	2	
		MISCELLANEOUS		
	VMX1858	LED SPACER	9	
	VJF1360	DISPLAY HOLDER	1	
	VSC5249	REFLECTION PLATE	1	
■ E17	VEP80C15A	HEAD PHONE P.C.BOARD0	1	(RTL)
C1001,02	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	2	
FL1001,02	VLF1016A223	FILTER	2	
IC1001	NJM4556AM	IC	1	C0ABBB000042
J1001	VJJ0378	M6 JACK	1	K2HB103B0019
P1001	K1KA08B00188	CONNECTOR (MALE)	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q1001,02	2SD1328	TRANSISTOR	2	
R1001	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1002	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R1003	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R1004	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R1005	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R1006	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1010	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1011	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1012	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R1013	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R1014	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R1015	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R1016	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
VR1001	EVUNCA040A14	V.RESISTOR 10K	1	
		MISCELLANEOUS		
	VMP6818	FRONT JACK ANGLE	1	
	XTV3+6F	SCREW	1	
	VMP5137	HEAD PHONE GND ANGLE	1	
	VMT0493	CUSHION	1	
■ E18	VEP80C16A	EJECT P.C.BOARD0	1	(RTL)
SW2001	VSP1005	SWITCH	1	K0H1BA000148
		MISCELLANEOUS		
	VWJ03CN060AA	FLAT CABLE	1	
■ E19	VEP80856A	CARRIGE P.C.BOARD0	1	(RTL)
P1	VJP1249T	CONNECTOR (MALE)	1	K1KA09B00028
P2	VJS2889A012	CONNECTOR (FEMALE)	1	
P3	VJS2889A016	CONNECTOR (FEMALE)	1	
R1-R7	ERDS2TJ221	C.RESISTOR 1/4W 220	7	

ELECTRICAL REPLACEMENT PARTS LIST (AJ-YA455P)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3000,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3002,03	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C3004-06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3007	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3008	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3100,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3103,04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3107	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3200,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3202	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3203	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3204-06	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	3	
C3207	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C3208	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3209	ECUX1H153KBV	C.CAPACITOR CH 50V 0.015U	1	
C3210	ECUX1H040CCV	C.CAPACITOR CH 50V 4P	1	
C3211	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C3212	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3213,14	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C3215,16	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3217	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3218	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3219	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3220	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3221	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3222	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C3223	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3224	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3225	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3226	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3227	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3228	ECUX1E223KBV	C.CAPACITOR CH 25V 0.023U	1	
C3229	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3230	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3330-38	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	9	
C3400-08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	9	
C3410,11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3412	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3413-15	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3416	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3417	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3418	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3419	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3424	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3500-05	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C3508-16	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	9	
C3518	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C3521-23	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3524	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3525-27	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3528	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3529	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3530	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3531	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3532	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
D3200	LN1251CAL	DIODE	1	
D3201,02	MA151K	DIODE	2	
IC3000	XC62FP2502PR	IC	1	
IC3102,03	NVHC541MTCX	IC	2	
IC3104	NVHC245MTCX	IC	1	
IC3105	74LCX245MTCX	IC	1	
IC3200	XC62FP5002P	IC	1	
IC3201	C1AB00001385	IC	1	
IC3202	XC62FP5002P	IC	1	
IC3203	GS9028-CKA	IC	1	C1AB00000365
IC3204	C1AB00001088	IC	1	
IC3205	XC62FP5002P	IC	1	
IC3300	74LCX541MTCX	IC	1	
IC3301	GS9023-CFY	IC	1	
IC3400	74LCX541MTCX	IC	1	
IC3401	GS9023-CFY	IC	1	
IC3402	C1AB00001386	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC3404	XC62FP5002P	IC	1	
IC3405	NVHC541MTCX	IC	1	
IC3500,01	NVHC541MTCX	IC	2	
IC3502	C1ZBZ0001837	IC	1	
IP3503	C3ZBH0000010	IC	1	
IC3505	UPD6456T611Y	IC	1	C1AB00000555
IC3506	XC62FP5002P	IC	1	
IC3507	C1AB00001386	IC	1	
ID0	VVVSI3569	SOFTWARE	1	
J3200,01	VJP3461	CONNECTOR (MALE)	2	K1QZA1BA0001
J3400,01	VJP3461	CONNECTOR (MALE)	2	K1QZA1BA0001
J3500	VJP3461	CONNECTOR (MALE)	1	K1QZA1BA0001
L3000,01	VLF1151A132	COIL	2	
L3200	VLQ0426J015	COIL 15UH	1	
L3201,02	VLQ0426J010	COIL 1UH	2	
L3400,01	VLQ0426J010	COIL 1UH	2	
L3500,01	VLQ0426J010	COIL 1UH	2	
P3000	K1KA96B00032	CONNECTOR (MALE)	1	
P3500	VJP3125B008	CONNECTOR (MALE)	1	
QR3200	UN2214	TRANSISTOR-RESISTOR	1	
R3100,01	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3102-05	D1H84734A008	COMBI.R-R	4	
R3200	ERJ3RED750	M.RESISTOR CH 1/16W 75	1	
R3201	ERJ3RED390	M.RESISTOR CH 1/16W 39	1	
R3202,03	ERJ3RED750	M.RESISTOR CH 1/16W 75	2	
R3204	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3205	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R3206,07	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	2	
R3209	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R3211	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3212	ERJ3RBD361	M.RESISTOR CH 1/16W 360	1	
R3213	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3214-17	ERJ3RED750	M.RESISTOR CH 1/16W 75	4	
R3218	ERJ6RED560	M.RESISTOR CH 1/10W 56	1	
R3219-22	ERJ6RED750	M.RESISTOR CH 1/10W 75	4	
R3223	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R3224	ERJ3RBD683	M.RESISTOR CH 1/16W 68K	1	
R3225	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R3226-28	D1H810140001	COMBI.R-R	3	
R3229	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3330	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3333	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3334	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3335	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R3336	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3400	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3401-04	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	4	
R3405-08	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	4	
R3409	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3410	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3411	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3413	ERJ3RBD361	M.RESISTOR CH 1/16W 360	1	
R3415	ERJ3RED510	M.RESISTOR CH 1/16W 51	1	
R3416-19	ERJ6RED750	M.RESISTOR CH 1/10W 75	4	
R3420	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3421,22	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R3423	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3424	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3500,01	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	2	
R3502-04	D1H833040002	COMBI.R-R	3	
R3505,06	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R3508	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3509	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3510	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3511	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3512,13	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3514	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R3515	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3516-18	D1H810140001	COMBI.R-R	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3519	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3520	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3521	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3522-24	D1H810140001	COMBI.R-R	3	
R3526	ERJ3RBD361	M.RESISTOR CH 1/16W 360	1	
R3528	ERJ3RED510	M.RESISTOR CH 1/16W 51	1	
R3529	D1H833040002	COMBI.R-R	1	
R3530,31	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R3533-37	ERJ6RED750	M.RESISTOR CH 1/10W 75	5	
R3538-41	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	
TG3000	EYF6CU	TEST POINT	1	
TG3200	EYF6CU	TEST POINT	1	
TG3400	EYF6CU	TEST POINT	1	
		MISCELLANEOUS		
	VML2144	CARD PULLER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

ELECTRICAL REPLACEMENT PARTS LIST (AJ-YAD455P)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP83559A	DIF P.C.BOARD	1	(RTL)
■ E2	VEP80C21A	DIF JACK P.C.BOARD	1	(RTL)
■ E1	VEP83559A	DIF P.C.BOARD	1	(RTL)
C201-03	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C204	EEVHB1C101P	E.CAPACITOR 16V 100U	1	
C205-09	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C210-13	EEVHB1C470	E.CAPACITOR 16V 47U	4	
C214-17	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C218	EEVHB1A330	E.CAPACITOR 10V 33U	1	
C219-21	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C222	EEVHB1A330	E.CAPACITOR 10V 33U	1	
C223-25	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C227	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C228	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C230	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C233,34	VCEA1AAP330	E.CAPACITOR 10V 33U	2	
C301,02	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	2	
C305-13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	9	
C401-05	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C501-05	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C507-11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C512	ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C513	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C514	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C515	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C516	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C519	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C601-16	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	16	
C701-08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C802	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C901-03	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
D201,02	MA701A	DIODE	2	
D301,02	LN1251CAL	DIODE	2	
D701,02	LN1251CAL	DIODE	2	
IC201-04	XC62FP3202P	IC	4	
IC206	LT1086CM	IC	1	C0CBAYG00001
IC207	74AHC1G08DCK	IC	1	
IC208	NVHC541MTCX	IC	1	
IC209	TVS1129	IC	1	C0JBAZ000525
IC210	C0EBE0000074	IC	1	
IC301	M31010M6115H	IC	1	
IC302	74AHC1G32DCK	IC	1	
IC402	AK6440AF	IC	1	
IC403,04	M5256DVP10VL	IC	2	C3BBFC000171
IC405	IDT71V321L5F	IC	1	C3HBCC000023
IC501	TSB13LV11PBW	IC	1	
IC601	C9ZB00000370	IC	1	
IC704	NVHC244MTCX	IC	1	
IC705	X9144L7T100	IC	1	
IC801	S51V18165D6T	IC	1	
IC901	C0JBAZ001544	IC	1	
IC902	NVHC541MTCX	IC	1	
IC903	74LCX244MTCX	IC	1	
ID401	VVVSI3570B	SOFTWARE	1	
ID702	VVVSI3571A	SOFTWARE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
ID705	VVVSI3622	SOFTWARE	1	
IP401	C3FBLD000046	IC	1	
IP702	C3FBLD000046	IC	1	
L201-03	VLF1151A132	COIL	3	
L501,02	J0LC00000008	FILTER	2	
P101	K1KA96B00032	CONNECTOR (MALE)	1	
P401	VJS3791B020	CONNECTOR (FEMALE)	1	
P501	K1KA06B00120	CONNECTOR (MALE)	1	
P701,02	VJP3125B008	CONNECTOR (MALE)	2	
QR301,02	UN5213	TRANSISTOR-RESISTOR	2	
QR701,02	UN5213	TRANSISTOR-RESISTOR	2	
R201	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R202	D1H810240001	COMBI.R-R	1	
R203	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R204	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R205	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R206	ERJ6RBD101	M.RESISTOR CH 1/10W 100	1	
R207	ERJ6RED470	M.RESISTOR CH 1/10W 47	1	
R302	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R303	ERJ3GEYJ431	M.RESISTOR CH 1/16W 430	1	
R304	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R305	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R306	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R307,08	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R309,10	D1H84734A008	COMBI.R-R	2	
R316	D1H810240001	COMBI.R-R	1	
R317	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R318	D1H810240001	COMBI.R-R	1	
R320-24	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	5	
R325	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R327	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R328,29	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R403	D1H84734A008	COMBI.R-R	1	
R404-08	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	5	
R409	D1H810240001	COMBI.R-R	1	
R410	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R451	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R502	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R503,04	D1H84734A008	COMBI.R-R	2	
R506-08	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R509	D1H84734A008	COMBI.R-R	1	
R510	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R511	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R512	ERJ6RBD622	M.RESISTOR CH 1/10W 6.2K	1	
R513,14	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	2	
R515	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R516,17	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	2	
R518	ERJ3GEYJ512	M.RESISTOR CH 1/16W 5.1K	1	
R519	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R520	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R521,22	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R601-03	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R604,05	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	2	
R606	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R607	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R608	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R623	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R626-28	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R701	D1H810240001	COMBI.R-R	1	
R704	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R705	D1H810240001	COMBI.R-R	1	
R707-11	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	5	
R712	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R713	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R716	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R717	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R718,19	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R720	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R721	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R722	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R723	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R724	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R726,27	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R728	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R732	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R733	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R734	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R735	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R736	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R747-49	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	3	
R904	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R905	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R907	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R908	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R909,10	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R912-14	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	3	
R916	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
SW201	VSP1005	SWITCH	1	K0H1BA000148
SW301	VSS0367-08B	SWITCH	1	
SW701	VSS0367-04B	SWITCH	1	
X301	VSX0883	CRYSTAL OSCILLATOR	1	H0J200500015
X501	VSX0974	CRYSTAL OSCILLATOR	1	H0J245500010
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
■ E2	VEP80C21A	DIF JACK P.C.BOARD	1	(RTL)
P101	VJP3993	CONNECTOR (MALE)	1	K1FB106B0003
P102	K1KA06B00120	CONNECTOR (MALE)	1	
R101-04	ERDS2T0	C.RESISTOR 1/4W 0	4	
SW2001	VSP1005	SWITCH	1	K0H1BA000148
		MISCELLANEOUS		
	VWJ03CN060AA	FLAT CABLE	1	
	VEE0N57	DIF CABLE	1	
	VJF1344	CONNECTOR HOLDER (1)	1	
	VJF1345	CONNECTOR HOLDER (2)	1	
	XYN2+J6	SCREW	4	
	VMP6821	OPTION ANGLE	1	
	XTN3+6FFY	SCREW	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

1. POWER SUPPLY UNIT

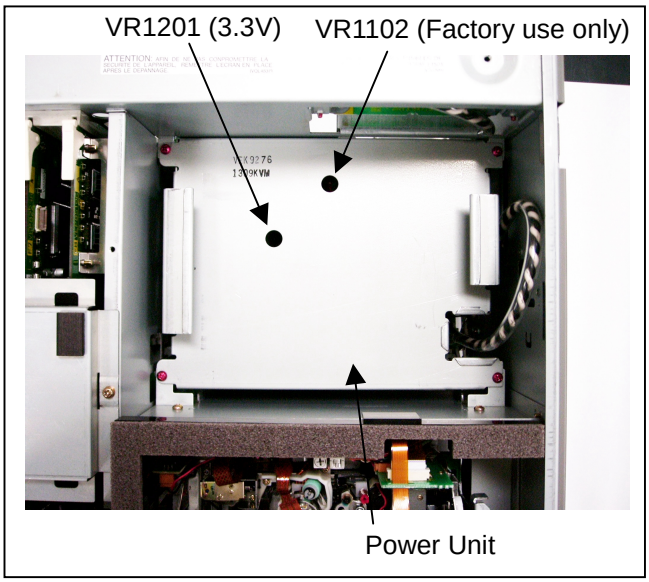
1-1. Power Supply Voltage Adjustment

BOARD	POWER UNIT
TP	TP6 (+3.3V) (on the extension board)
ADJ.	VR1201 (+3.3V)
TAPE	-----
INPUT	-----
MODE	EJECT
M. EQ	Digital Voltmeter
SPEC.	+3.35V ± 0.05V

1. Extend the Servo (F7) board with extension board.
2. Turns ON the power switch, and set to “EJECT” mode.
3. Connect Digital Voltmeter to TP6 on the extension board, and adjust VR1201 so that the DC voltage is in the specification.

<Note>

The VR1102 is for factory, use only.



2. SERVO

2-1. SERVO FG Offset Adjustment

BOARD	SERVO (F7)
TP	-----
ADJ.	Service Menu
TAPE	-----
INPUT	-----
MODE	EJECT
M. EQ	-----
SPEC.	-----

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **A00: SERVO ADJUST** and press the “SET” button to open the SERVO ADJUST MENU.
3. Select the **A01 FG DC ADJ**, and Press the “ ▶ ” button continuously until “OK” sign is displayed on the right side of A01 FG DC ADJ. (It takes 5-10 seconds.) (During automatic adjustment, the reel motor and brake solenoid are moving.)
4. Close the menu.

<Note>

1. When “NG” sign is displayed or becoming the “AUTO OFF”, do not insert the tape. Check the mechanism condition and servo circuit.
2. When the parts of mechanism is disassembled and assembled, before inserting a cassette tape, implement this adjustment.
3. When repairing or changing the mechanism (Capstan/Reel), Servo (F7) board, or Syscon (F6) board, implement this adjustment.

2-2. Reel Torque Gain Adjustment

BOARD	SERVO (F7)
TP	-----
ADJ.	Service Menu
TAPE	-----
INPUT	-----
MODE	EJECT
M. EQ	Monitor TV
SPEC.	-----

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **A00: SERVO ADJUST** and press the "SET" button to open the SERVO ADJUST MENU.
3. Select the **A02:RL GAIN ADJ** by using the "▲" or "▼" button.
4. Press the "▶" button continuously until the two kind of numeric value displayed on the right side of **RL GAIN ADJ** goes off one time. Release the "▶" button when the both two new numeric value has been updated. (It takes 5-6 seconds.)
5. Perform the Item 4 again. And confirm the numeric value is changed to new value.
6. Close the menu.

<Note>

1. When the new numerical value isn't displayed, check the reel brake which wasn't turned while pressing the "▶" button.
2. Before "2-3. Motor Torque Offset Adjustment", implement this adjustment.

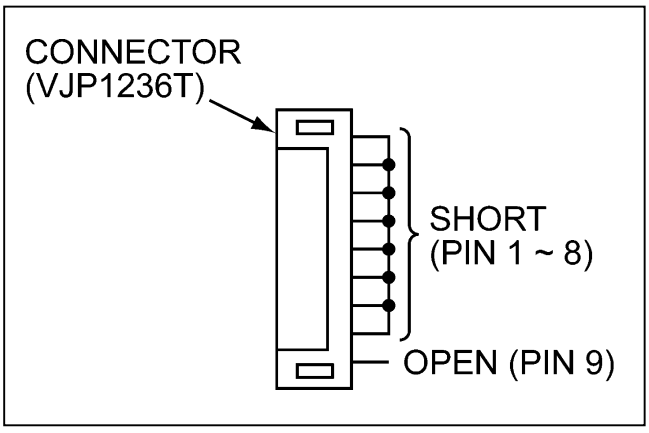
2-3. Motor Torque Offset Adjustment

BOARD	SERVO (F7)
TP	S,T REEL TABLE
ADJ.	SERVICE MENU
TAPE	-----
INPUT	-----
MODE	EJECT
M. EQ	VFK1191 (Dial Torque Gauge) VFK1152 (Dial Torque Gauge Adaptor)
SPEC.	0.15 ± 0.02 cNm (15g-cm ± 2g-cm) (5 times average)

1. Remove the Front Loading Unit. (Refer to SEC2 Disassembly Procedures)
2. Connect the Carriage tool (see the following figure) to connector P1 which is coming from the MECH. I/F board to Carriage board of the front loading unit.
3. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
4. Select the **A00: SERVO ADJUSTS** and press the "SET" button to open the Servo Adjust menu.
5. Select the **A03: T TORQUE**.
6. Set a Dial Torque Gauge to top of Take-up Reel Table.
7. Press the STOP button and measure the value of Dial Torque Gauge 5 times, then calculate the average and adjust "T TORQUE" with EVR so that the average is in the specification.

Note: While pressing the STOP button, the REEL Table is rotated.

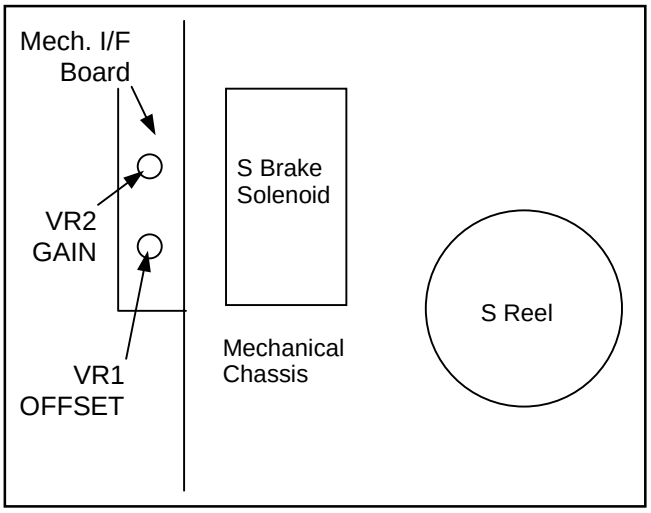
8. Select the item **A04: S TORQUE**.
9. Set a Dial Torque Gauge to top of Supply Reel Table.
10. Press the STOP button and measure the value of Dial Torque Gauge 5 times, then calculate the average and adjust "S TORQUE" with EVR so that the average is in the specification.



2-4. Tension Sensor Voltage Adjustment (1)

BOARD	SERVO (F7)
TP	TP201
ADJ.	VR1 (OFFSET) on the Mech. I/F board
TAPE	-----
INPUT	-----
MODE	EJECT
M. EQ	Digital voltmeter
SPEC.	2.5V ± 0.05V

1. Connect the Digital voltmeter to TP201.
2. Adjust the VR1 on the Mech. I/F board so that the DC voltage is in the specification.

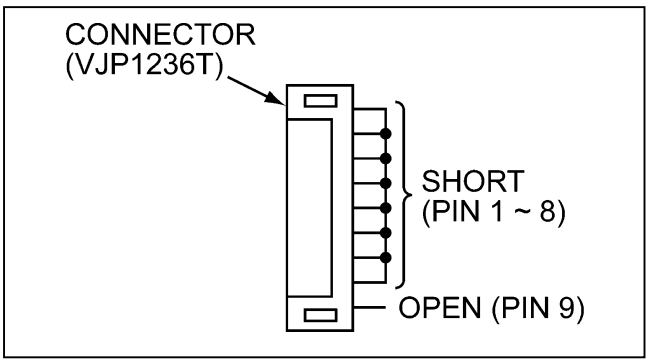


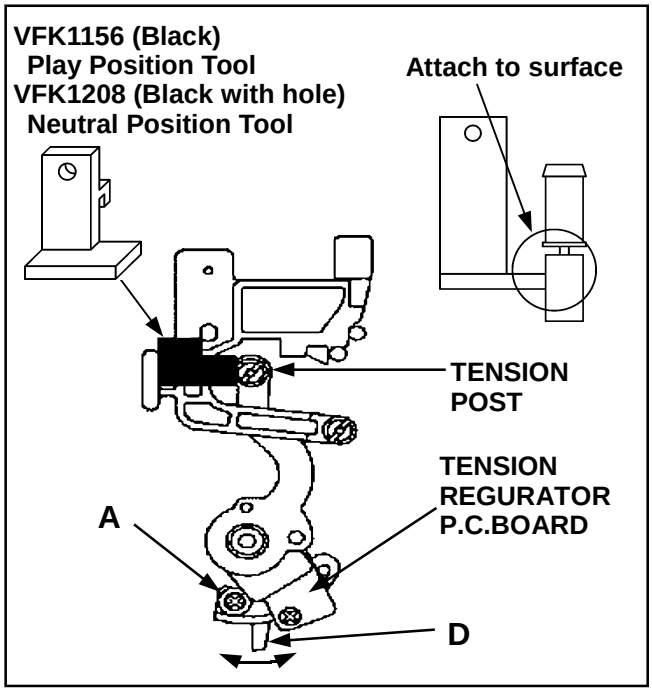
2-5. Tension Sensor Voltage Adjustment (2)

BOARD	SERVO (F7)
TP	TP201
ADJ.	VR2 (GAIN)
TAPE	-----
INPUT	-----
MODE	EJECT
M. EQ	Digital voltmeter, VFK1208 (Neutral Position Tool, Black with hole) VFK1156 (PLAY Position Tool, Black)
SPEC.	2.5V ± 0.05V

NOTE:
Do not use magnetized tweezers and screwdriver.
Do not touch the magnetize screwdriver to S-Reel FG magnet portion, while adjusting the lever (D) portion.

1. Remove the Front Loading Unit. (Refer to SEC2 Disassembly Procedures)
2. Connect the Carriage tool (see the following figure) to connector P1 which is coming from the MECH. I/F board to Carriage board of the front loading unit.
3. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
4. Select the **A00: SERVO ADJUST** and press the "SET" button to open the SERVO ADJUST MENU.
5. Select the **A08 TENSION**.
6. Install the VFK1208 (black with hole) as shown in figure.
7. Connect the Digital voltmeter to TP201.
8. Press the " ▸ " button, then display the ON sign at the right side of A08 TENSION. At the same time the loading is started.
9. Confirm the DC voltage at TP201 is in the specification. If it is not, adjust the sensor position as follows.
   Loosen the screw (A) and move the lever (D) with tweezers. After adjusting, press the " ◂ " button to set the unloading position.
10. Remove the VFK1208 (black with hole), and install the VFK1156 (Black) as same way as VFK1208.
11. Press the " ▸ " button to set the loading position.
12. Adjust the VR2 (GAIN) on the Mech. I/F board so that the DC voltage at TP201 is in the specification.

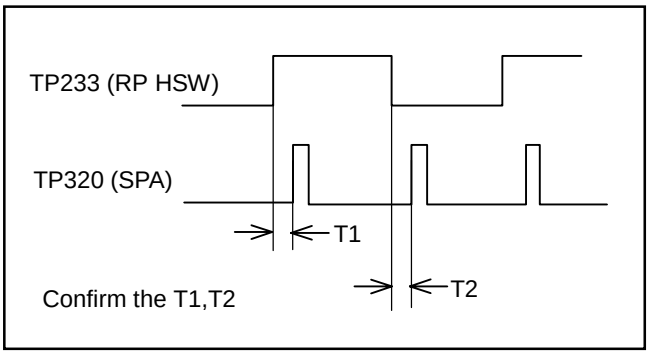




2-6. PG Shifter Adjustment

BOARD	SERVO (F7)
TP	TP233 (RP HSW) TP320 (SPA)
ADJ.	Service Menu
TAPE	VFM3680KM/KL
INPUT	-----
MODE	EJECT
M. EQ	Oscilloscope
SPEC.	T1, T2 = 126.4 ± 4μs

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **A00: SERVO ADJUST** and press the "SET" button to open the SERVO ADJUST MENU.
3. Select the **A05 PG SHIFT 25**.
4. Playback the colour bar portions of the 25M alignment tape.
5. Press the "▶" button continuously until the numeric value displayed on the right side of PG shift 25 goes off one time. Release the "▶" button when the new numeric value has been updated.
6. Connect a scope to TP233 and TP320.
   Confirm the T1 and T2 are in the specification.
7. Close the menu.



3. RF/EQ (F8)

The adjustment of this section should be performed after adjusting the Servo (F7) board.

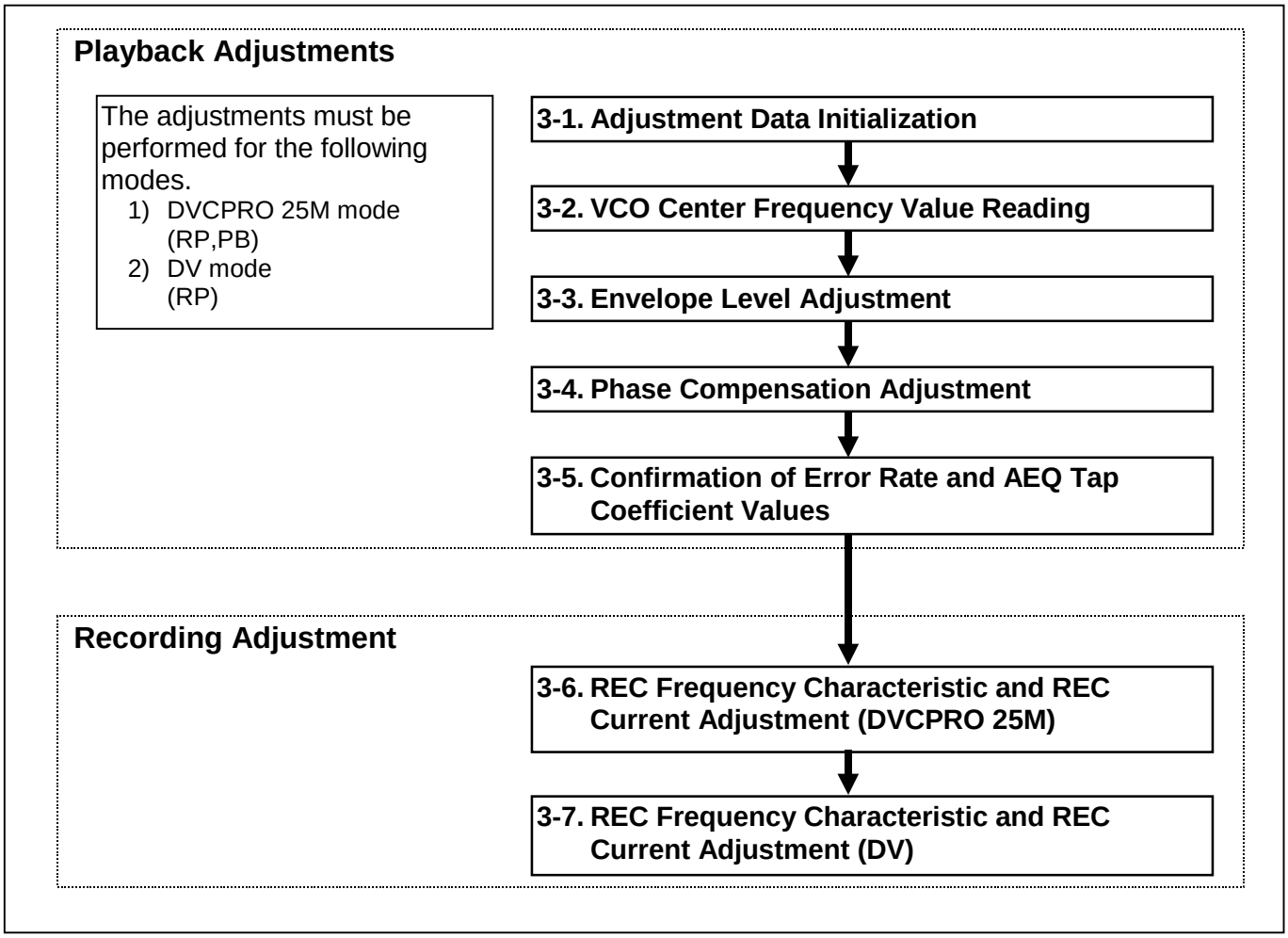
This adjustment mainly uses the Service Menu. The procedures for opening the menu, changing the settings and closing the menu are described below.

1. Opening the Service Menu
   a) Press the **"MENU"** button to open the set-up menu.
   b) Press the **"STOP"** button and **"EJECT"** button simultaneously and press the **"MENU"** button again.
   c) The Service Menu is superimposed on the VIDEO OUT 3 out put signal.

2. Changing the Setting
   Caution : The changing of the setting can only be performed when the tape is inserted.
   a) Press the **"▲ and/or ▼"** button and move the cursor (*) to the desired setting or adjustment page and press the **"SET"** button to open the adjustment page.
   b) Press the **"▲ and/or ▼"** button and move the cursor (*) to the desired setting or adjustment item and press the **"◀ and/or ▶"** button to change the setting value.

3. Closing the Service menu
   a) After the settings change is completed, press the MENU button to close the service menu.

Perform the adjustments of these items according to the following flowchart.



3-1. Adjustment Data Initialization

Initialize the adjustment values for the following items before starting the adjustment. (It may not be possible to obtain the best values if the adjustment is performed without the initialized values.)

1. Insert the DVCPRO alignment tape. (VFM3680KM or (L)).
2. Open the Service Menu.
3. Open the **B00: RF ADJUST** in the Service Menu.
4. Open the **C00: PRO ADJUST** in the Service Menu.
5. Open the **C-4 DEFAULT** in the Service Menu.
6. Select **INIT LOAD**. And press the SET button to complete the initialization of the 25M mode adjustment values.
7. Press the MENU button two times and return to the RF ADJUST menu.
8. Insert the DV adjustment tape.
9. Open the **D00: DV ADJUST** in the Service Menu.
10. Open the **D-4 DEFAULT** in the Service Menu.
11. Select **INIT LOAD** and press the SET button to complete the initialization of the DV mode adjustment values.

3-2. VCO Center Frequency Value Reading

BOARD	RF/EQ (F8)
TP	-----
ADJ.	Service Menu
TAPE	-----
INPUT	-----
MODE	EJECT
M. EQ	-----
SPEC.	-----

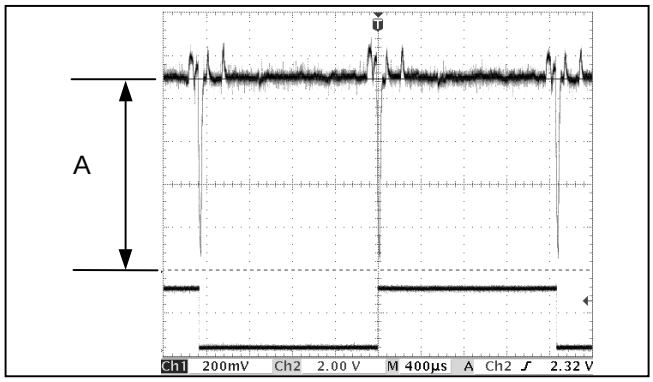
<Caution>
Set to the EJECT mode before performing the following operations.
(If the EJECT mode is not set and these operations described below are performed in the PLAY and REC mode, item 3-5 Confirmation of Error Rate and AEQ Tap Coefficient Values may be wrong. In this case, perform the procedures described in item 3-1. Adjustment Data Initialization.)

1. Open the Service Menu.
2. Open the **B00: RF ADJUST** in the Service Menu.
3. Open the **C00: PRO ADJUST** in the Service Menu.
4. Open the **C-2: RP ADJUST** in the Service Menu.
5. Select the **C32: IC READ** and change the setting from “OFF” to **“SINGLE”**.
6. Press the SET button to set the **C: 19 VCO** adjustment value automatically.
7. Select the **C32: IC READ** and change the setting from “SINGLE” to **“OFF”**. Press the **“SET”** button.
8. Press the MENU button to return to the **C00: PRO ADJUST** menu.
9. Open the **C-3: PB ADJUT** in the Service Menu.
10. Select the **C32: IC READ** and change the setting from “OFF” to **“SINGLE”**.
11. Press the SET button to set the **C19: VCO** adjustment value automatically.
12. Select the **C32: IC READ** and change the setting from “SINGLE” to **“OFF”**. Press the **“SET”** button.
13. Press the **“MENU”** button two times and return to the **RF ADJUST** menu.
14. Open **D00: DV ADJUST** in the Service Menu.
15. Open **D-2: RP ADUJST** in the Service Menu.
16. Select **D32: IC READ** and change the setting from “OFF” to **“SINGLE”**.
17. Press the **SET** button to set the **D19: VCO** adjustment value automatically.
18. Select the **C32: IC READ** and change the setting from “SINGLE” to **“OFF”**. Press the **“SET”** button.

3-3. Envelope Level Adjustment

BOARD	RF/EQ (F8)
TP	TP20, TP10, TP2 (Trigger)
ADJ.	Service Menu
TAPE	625(PAL): VFM3680KM (L)/VFM3110EDS Alignment Tape (Colour Bar)
INPUT	Colour bar
MODE	PLAY
M. EQ	Oscilloscope
SPEC.	+0.8VDC ± 0.1VDC

1. Extend the RF/EQ (F8) board.
2. Connect the oscilloscope CH1 to TP20 (500mV/DIV, 1msec) and CH2 to TP2 (5V/DIV, 1msec). Set the Trigger channel to CH2. And set the 20MHz BW LIMIT to ON.
3. Play back the alignment tape (VFM3680KM (L)).
4. Open **B00 RF ADJUST** in the Service Menu.
5. Open **C00 PRO ADJUST** in the Service Menu.
6. Open **C-2: RP ADJUST** in the Service Menu.
7. Adjust **C03: RF MAG L** and **C04: RF MAG R** in the Service Menu so that the TP20 (CH1) DC voltage **"A"** is in the specification. (Refer to the following figure.)
8. Press the **"SET"** button when the adjustment is completed.
9. Change the connection of the oscilloscope CH1 to TP10 (500mV/DIV, 1msec).
10. Playback the alignment tape (VFM3680KM (L))
11. Open **B00 RF ADJUST** in the Service Menu.
12. Open **C00 PRO ADJUST** in the Service Menu.
13. Open **C-3: PB ADJUST** in the Service Menu.
14. Adjust **C03: RF MAG L** and **C04: RF MAG R** in the Service Menu so that the TP10 (CH1) DC voltage **"A"** is in the specification. (Refer to the following figure.)
15. Press the **"SET"** button when the adjustment is completed.
16. With the same connection of the oscilloscope, playback the DV alignment tape (VFM3110EDS).
17. Open **B00 RF ADJUST** in the Service Menu.
18. Open **D00 DV ADJUST** in the Service Menu.
19. Open **D-2: RP ADJUST** in the Service Menu.
20. Adjust **C03: RF MAG L** and **C04: RF MAG R** in the Service Menu so that the TP10 (CH1) DC voltage **"A"** is in the specification. (Refer to the following figure.)
21. Press the **"SET"** button when the adjustment in completed.



3-4. Phase Compensation Adjustment

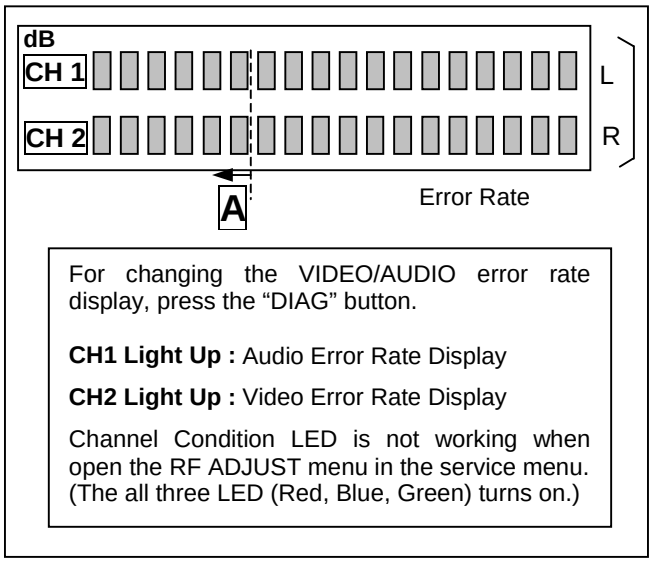
BOARD	RF/EQ (F8)
TP	Audiometer (Error Rate Display)
ADJ.	Service Menu.
TAPE	625(PAL): VFM3680KM (L)/VFM3110EDS Alignment Tape (Colour Bar)
INPUT	Colour bar
MODE	PLAY
M. EQ	Oscilloscope
SPEC.	Error Rate = Minimum

1. Install to the circuit board that was extended in the previous adjustment item.
2. Insert the DVCPRO (VFM3680KM (L)) alignment tape and play it back.
3. Open the Service Menu.
4. Open the **B00: RF ADJUST** in the Service Menu.
5. Open the **C00: PRO ADJUST** in the Service Menu.
6. Open the **C-2: RP ADJUST** in the Service Menu.
7. Select the **C40: VITERBI MODE** and change the setting from "ON" to **"OFF"**.
8. Select **C41: AEQ MODE** and change the setting from "ON" to **"OFF"**.
9. Adjust the **C01: RF PHS L** and **C02: RF PHS R** so that the error rate is at the minimum level.
   (Set the adjustment values to the maximum number and adjust the error rate from the incorrect condition.)
   Press the **"SET"** button when the adjustment is completed.
10. Press the **"MENU"** button to return to the **C00: PRO ADJUST** in the Service Menu.
11. Open the **C-3: PB ADJUST** in the Service Menu.
12. Select the **C40: VITERBI MODE** and change the setting from "ON" to **"OFF"**.
13. Select **C41: AEQ MODE** and change the setting from "ON" to **"OFF"**.
14. Adjust the **C01: RF PHS L** and **C02: RF PHS R** so that the error rate is at the minimum level.
    (Set the adjustment values to the maximum number and adjust the error rate from the incorrect condition.)
    Press the **"SET"** button when the adjustment is completed.
15. Insert the DV alignment tape (VFM3110EDS) and play it back.
16. Open the **D00: DV ADJUST** in the Service Menu.
17. Open the **D-2: RP ADJUST** in the Service Menu.
18. Select the **D40: VITERBI MODE** and change the setting from "ON" to **"OFF"**.
19. Select the **D41: AEQ MODE** and change the setting from "ON" to **"OFF"**.
20. Adjust the **D01: RF PHS L** and **D02: RF PHS R** so that the error rate is at the minimum level.
    (Set the adjustment values to the maximum number and adjust the error rate from the incorrect condition.)
    Press the **"SET"** button when the adjustment is completed.

3-5. Confirmation of Error Rate and AEQ Tap Coefficient Values

BOARD	RF/EQ (F8)
TP	Audiometer (Error Rate Display).
ADJ.	Service Menu
TAPE	625(PAL): VFM3680KM (L)/VFM3110EDS Alignment Tape (Colour Bar)
INPUT	-----
MODE	PLAY
M. EQ	-----
SPEC.	-----

1. Insert the DVCPRO alignment tape (VFM3680KM (L)) and play it back.
2. Open the Service Menu.
3. Open the **B00: RF ADJUST** in the Service Menu.
4. Open the **C00: PRO ADJUST** in the Service Menu.
5. Open the **C-2: RP ADJUST** in the Service Menu.
6. Select the **C44: ERROR MODE** and change the setting "FAST" to **"SLOW"**.
7. Check the VIDEO/AUDIO error rate level of the audiometer on the front panel. Make sure that it is below level **"A"** shown in the figure.
8. Select the **C32: IC READ** and change the setting from "OFF" to **"SINGLE"**.
9. Press the **"SET"** button to set the AEQ tap coefficient automatically.
10. Select the **C32 IC READ** and change the setting from "SINGLE" to **"OFF"**. Press the **"SET"** button.
11. Press the **"MENU"** button to return to the **C00: PRO ADJUST** menu.
12. Open the **C-3: PB ADJUST** in the Service Menu.
13. Select the **C44: ERROR MODE** and change the setting from "OFF" to **"SINGLE"**.
14. Check the VIDEO/AUDIO error rate level of the audiometer on the front panel. Make sure that it is below level **"A"** shown in the figure.
15. Select the **C32: IC READ** and change the setting from "OFF" to **"SINGLE"**.
16. Press the **"SET"** button to set the AEQ tap coefficient automatically.
17. Select the **C32: IC READ** and change the setting from "SINGLE" to **"OFF"**. Press the **"SET"** button.
18. Insert the DV alignment tape (VFM3110EDS) and play it back.
19. Open the **D00: DV ADJUST** in the Service Menu.
20. Open the **D-2: RP ADJUST** in the Service Menu.
21. Select the **D44: ERROR MODE** and change the setting from "FAST" to **"SLOW"**.
22. Check the VIDEO/AUDIO error rate level of the audiometer on the front panel. Make sure that it is below level **"A"** shown in the figure.
23. Select the **D32: IC READ** and change the setting from "OFF" to **"SINGLE"**.
24. Press the **"SET"** button to set the AEQ tap coefficient automatically.
25. Select the **D31: IC READ** and change the setting from "SINGLE" to **"OFF"**. Press the **"SET"** button.



For changing the VIDEO/AUDIO error rate display, press the "DIAG" button.

CH1 Light Up : Audio Error Rate Display

CH2 Light Up : Video Error Rate Display

Channel Condition LED is not working when open the RF ADJUST menu in the service menu. (The all three LED (Red, Blue, Green) turns on.)

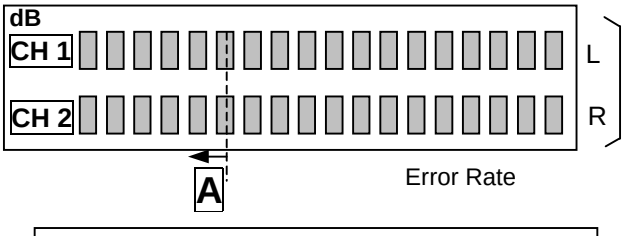
3-6. REC Frequency Characteristic and REC Current Adjustment (DVCPRO 25M)

BOARD	EQ MAIN (H2)
TP	TP6, TP2 (Trigger) Audiometer (Error Rate Display)
ADJ.	Service Menu
TAPE	625(PAL): VFM3680KM (L) Alignment Tape (Colour Bar) DVCPRO Recording tape
INPUT	Colour bar
MODE	PLAY
M. EQ	Spectrum analyzer
SPEC.	-----

1. Set a spectrum analyzer as follows.

Parameter	25M Mode
REF LEVEL	-----
ATTEN	10dB
/DIV	2dB
START FREQ	0MHz
STOP FREQ	40MHz
RES BW	1MHz
VBW	1KHz
SWEEP TIME	150ms
V AVG	OFF
TRIG	EXT

2. Extend the RF/EQ (F8) Board. Connect the spectrum analyzer INPUT to **TP6** and the external trigger to **TP2**.
3. Insert the recording tape and record the colour bar signal.
4. Open the Service Menu.
5. Open the **B00: RF ADJUST**.
6. Open the **C00: PRO ADJUST**.
7. Open the **C-1: REC ADJUST**.
8. Set the numerical value of **C01: REC CURR L** and **C03: REC CURR R** as follows.
   C01: REC CURR L→ +120
   C03: REC CURR R→ -120
9. Read (memorize) the spectrum at the confidence playback into the **TRACE B**, and continue to observe it with the **TRACE A**.
10. Adjust the **C01: REC CURR L** so that the level difference between the **TRACE B** (The spectrum memorized at the confidence playback) and **TRACE A** (The real time spectrum at the confidence playback**)** at **5MHz** portion is in the following specification.
    TRACE B – TRACE A : 1dB +1dB/-0dB.
    (After adjustment, memorize the adjustment value of the C01: REC CURR L.)
11. Adjust the **C02: REC FREQ L** so that the level difference between the **TRACE B** (The spectrum memorized at the confidence playback) and **TRACE A** (The real time spectrum at the confidence playback**)** at **20MHz** portion is in the following specification.
    TRACE B – TRACE A : 0dB +/-1dB.
12. Set the numerical value of **C01: REC CURR L** and **C03: REC CURR R** as follows.
    C01: REC CURR L→ -120
    C03: REC CURR R→ +120
13. Read (memorize) the spectrum at the confidence playback into the **TRACE B**, and continue to observe it with the **TRACE A**.
14. Adjust the **C03: REC CURR R** so that the level difference between the **TRACE B** (The spectrum memorized at the confidence playback) and **TRACE A** (The real time spectrum at the confidence playback**)** at **5MHz** portion is in the following specification.
    TRACE B – TRACE A : 1dB +1dB/-0dB.
    (After adjustment, memorize the adjustment value of the C03: REC CURR R.)
15. Adjust the **C04: REC FREQ R** so that the level difference between the **TRACE B** (The spectrum memorized at the confidence playback) and **TRACE A** (The real time spectrum at the confidence playback**)** at **20MHz** portion is in the following specification.
    TRACE B – TRACE A : 0dB +/-1dB.
16. For the **C01: REC CURR L** value and the **C03: REC CURR R** value that have been pre-adjusted in the steps 10 and 14, add +50 to them respectively for readjustment (fine adjustment).
17. Insert the recording tape and record the colour bar signal approximately one minute and play it back.
18. Check that the error rate is less than **"A"** level of the figure. (When confirm the error rate, select **C44: ERROR MODE** and change the setting from **"FAST"** to **"SLOW"**.)
    Read (memorize) the playback spectrum into the **TRACE B**.
19. Insert the DVCPRO alignment tape (VFM3680KM (L)) and play it back.
20. Confirm that the level difference between the **TRACE B** (Memorized self-recording playback spectrum) and **TRACE A** (Alignment tape playback spectrum) at **5 MHz** is in the following specification.
    TRACE B – TRACE A : 0 dB +/- 2dB.



For changing the VIDEO/AUDIO error rate display, press the "DIAG" button.

CH1 Light Up : Audio Error Rate Display

CH2 Light Up : Video Error Rate Display

Channel Condition LED is not working when open the RF ADJUST menu in the service menu. (The all three LED (Red, Blue, Green) turns on.)

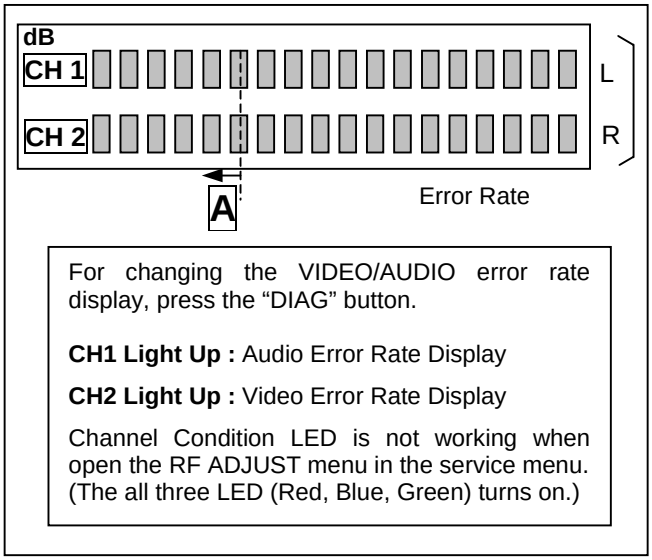
3-7. REC Frequency Characteristic and REC Current Adjustment (DV)

BOARD	EQ MAIN (H2)
TP	TP6, TP2 (Trigger) Audiometer (Error Rate Display)
ADJ.	Service Menu
TAPE	625(PAL): VFM3110EDS Alignment Tape (Colour Bar) DV Recording tape
INPUT	Colour bar
MODE	PLAY
M. EQ	Spectrum analyzer
SPEC.	-----

1. Set a spectrum analyzer as follows.

Parameter	25M Mode
REF LEVEL	-----
ATTEN	10dB
/DIV	2dB
START FREQ	0MHz
STOP FREQ	40MHz
RES BW	1MHz
VBW	1KHz
SWEEP TIME	150ms
V AVG	OFF
TRIG	EXT

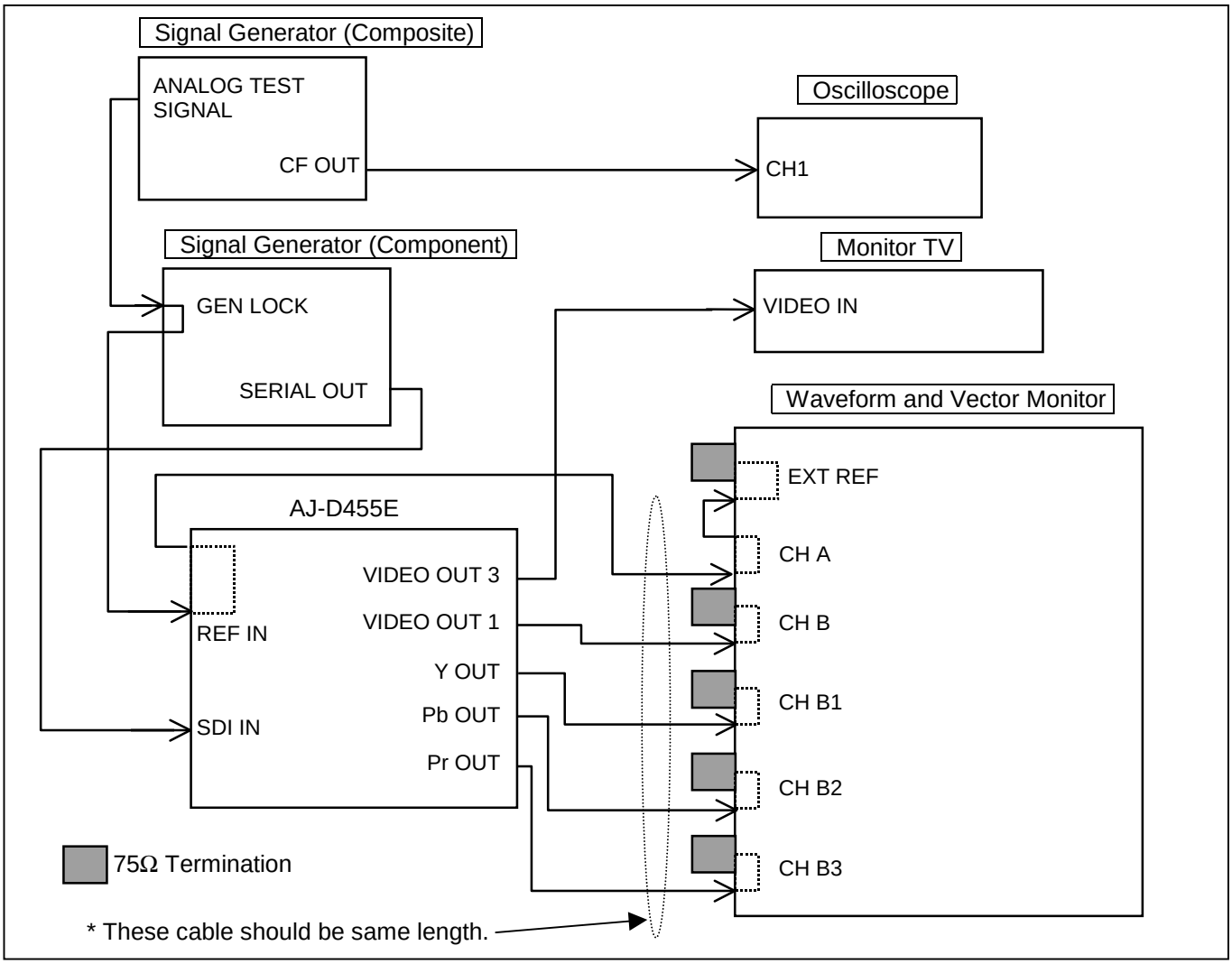
2. Extend the RF/EQ (F8) Board. Connect the spectrum analyzer INPUT to **TP6** and the external trigger to **TP2**.
3. Insert the DV recording tape and record the colour bar signal.
4. Open the Service menu.
5. Open the **B00; RF ADJUST**.
6. Open the **D00: DV ADJUST**.
7. Open the **D-1: REC ADJUST**.
8. For the **C02: REC FREQ L** value and the **C04: REC FREQ R** value that have been adjusted in the steps of "3-6. REC Frequency Characteristic and REC Current Adjustment (DVCPRO 25M)", add **+40** to them respectively for setting to the **D02: REC FREQ L** and the **D04: REC FREQ R**. (If the value exceeds +127 after addition, set to +120.)
9. Set the **D01: REC CURR L** and **D03: REC CURR R** to +20.
10. Insert the DV recording tape and record the colour bar signal approximately one minute and play it back.
11. Check that the error rate is less than **"A"** level of the figure. (When confirm the error rate, select **D44: ERROR MODE** and change the setting from **"FAST"** to **"SLOW"**.)
    Read (memorize) the playback spectrum into the **TRACE B**.
12. Insert the DV alignment tape (VFM3110EDS) and play it back.
13. Confirm that the level difference between the **TRACE B** (Memorized self-recording playback spectrum) and **TRACE A** (Alignment tape playback spectrum) at **5 MHz** is in the following specification.
    TRACE B – TRACE A : 0 dB +/- 2dB.



4. V OUT (F2)

4-1. Connection
4-2. Reference PLL Center Frequency Adjustment
4-3. Reference CF Detection Adjustment
4-4. Composite Sync DC Level Adjustment
4-5. Composite Y Level Adjustment
4-6. Composite YC Timing Adjustment
4-7. Composite C Gain Adjustment
4-8. System Sub-Carrier Phase Adjustment
4-9. Component Sync DC Adjustment
4-10. Component Y Level Adjustment
4-11. Component Pb Level Adjustment
4-12. Component Pr Level Adjustment
4-13. Component Y-Pb Timing Adjustment
4-14. Component Y-Pr Timing Adjustment

4-1. Connection



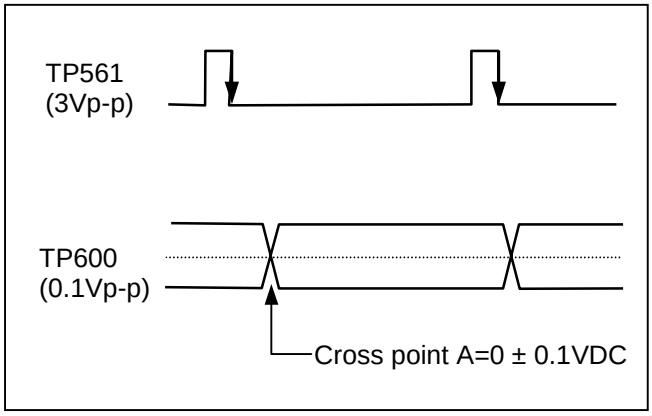
4-2. Reference PLL Center Frequency Adjustment

BOARD	V OUT (F2)
TP	TP600 (VCO) TP561 (Trigger)
ADJ.	VC600 (FREQ ADJ)
TAPE	-----
INPUT	REF VIDEO IN Analog Composite Signal (100% Color Bar)
MODE	-----
M. EQ	Oscilloscope
SPEC.	DC Level: 0 ± 0.1VDC

1. Adjust VC600 so that the DC voltage of cross point A at TP600 is in the specification.

<Note>

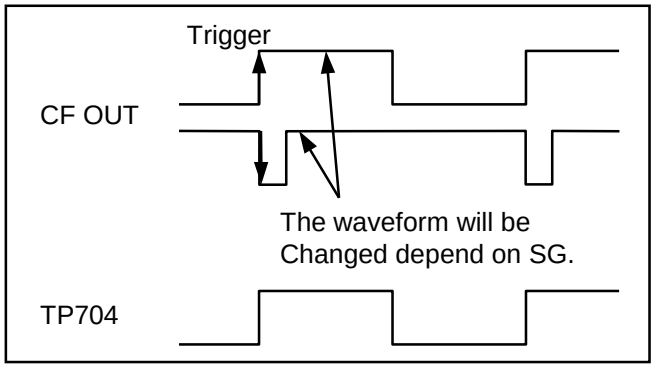
When the hand and so on approach too much near VC600 in adjustment, the DC voltage sometimes shifts.



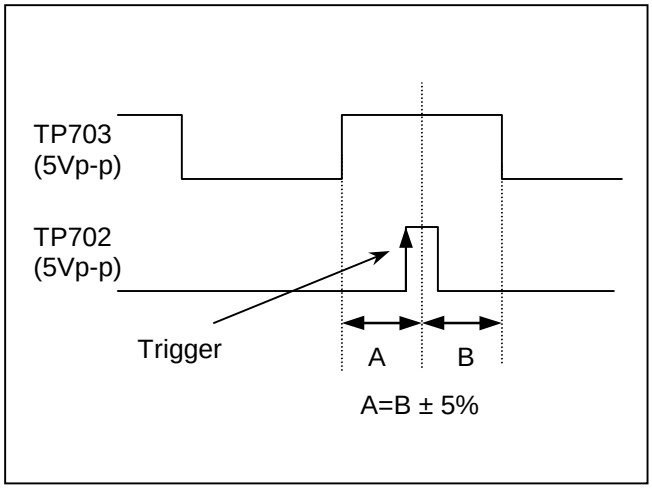
4-3. Reference CF Detection Adjustment

BOARD	V OUT (F2)
TP	Composite Signal CF OUT, TP704 (CF) TP702 (CF_TP2), TP703 (CF_TP1)
ADJ.	VR560 (SCH DET)
TAPE	-----
INPUT	REF VIDEO IN Analog Composite Signal (100% Color Bar)
MODE	-----
M. EQ	Oscilloscope
SPEC.	See Figure, A=B ± 5%

1. Connect the oscilloscope CH1 to the CF output of composite signal generator and CH2 to TP704.
2. Adjust VR560 so that the phase is synchronized between CF pulses and TP704 as shown in figure.
   And confirm that the “SCH_ON (C-1)” LED on the board is turned on.



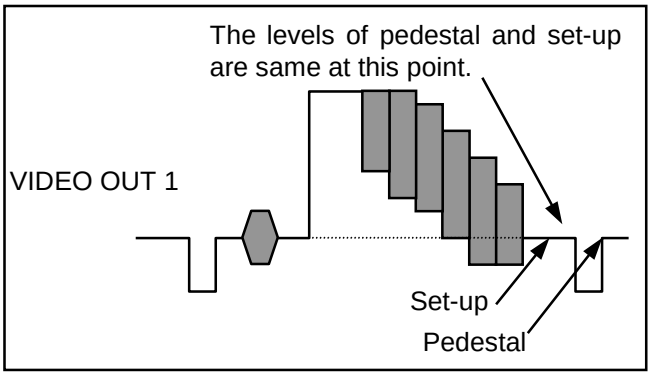
3. Connect the oscilloscope CH1 to TP702 and CH2 to TP703.
4. Expand (delay) the rising edge of TP702.
5. Slowly and slightly rotate VR560 so that the center of high portion at TP702 is positioned at the center of high portion at TP703.



4-4. Composite Sync DC Level Adjustment

BOARD	V OUT (F2)
TP	VIDEO OUT 1 (CH B)
ADJ.	VR452 (ENC SYNC DC)
TAPE	625(PAL): VFM3680KM (L) Alignment Tape (Color Bar)
INPUT	------
MODE	PLAY
M. EQ	Analog WFM
SPEC.	SET-UP LEVEL = PEDESTAL LEVEL ± 3mV

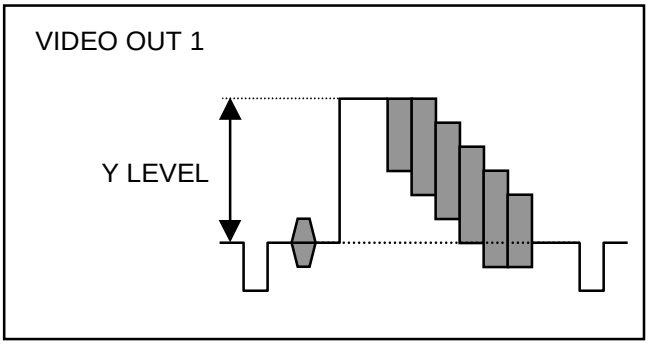
1. Play back the alignment tape at the color bar portion.
2. Adjust VR452 so that the set-up level is the same level as the pedestal level.



4-5. Composite Y Level Adjustment

BOARD	V OUT (F2)
TP	VIDEO OUT 1 (CH B)
ADJ.	VR453 (ENC Y LEV)
TAPE	625(PAL): VFM3680KM (L) Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM
SPEC.	Y Level = 700 ± 3mV

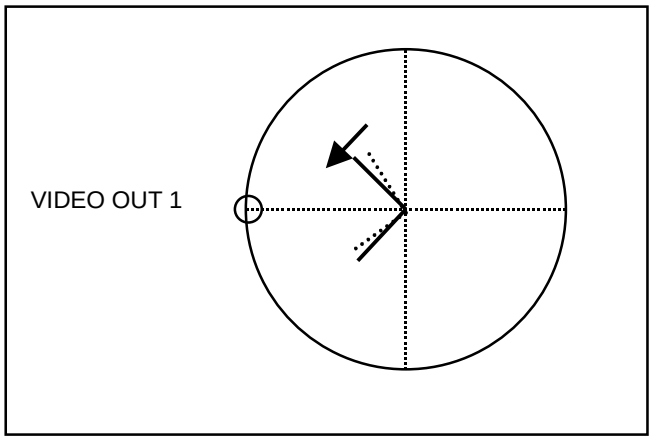
1. Play back the alignment tape at the color bar portion.
2. Adjust VR453 so that the Y level is in the specification.



4-6. Composite YC Timing Adjustment

BOARD	V OUT (F2)
TP	VIDEO OUT 1 (CH B)
ADJ.	VR456 (ENC C DL)
TAPE	625(PAL): VFM3680KM (L) Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM with SCH meter
SPEC.	SCH = 0 ± 1°

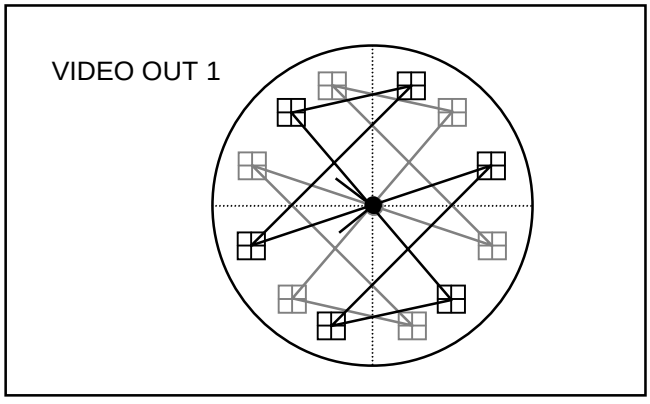
1. Adjust VR456 so that the SCH of VIDEO OUT 1 signal is in the specification.



4-7. Composite C Gain Adjustment

BOARD	V OUT (F2)
TP	VIDEO OUT 1
ADJ.	VR455 (ENC C LEV)
TAPE	625(PAL): VFM3680KM (L) Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	Vector Scope
SPEC.	All vector dots are in the inner box.

1. Set the burst position on the vector scope at correct position.
2. Adjust VR455 so that the all vector dots are in the inner box as shown in figure.



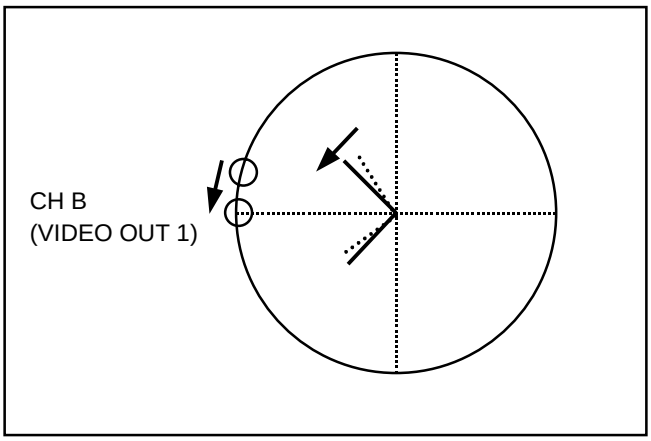
4-8. System Sub-Carrier Phase Adjustment

BOARD	V OUT (F2)
TP	REF IN (CH A), VIDEO OUT 1 (CH B)
ADJ.	VR600 (SYS SC)
TAPE	625(PAL): VFM3680KM (L) Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM with SCH meter
SPEC.	SCH = 0 ± 1°

1. Adjust VR600 so that the SCH of the VIDEO OUT 1 (CHB) is same as EXT-REF-IN (CHA).

<Note>

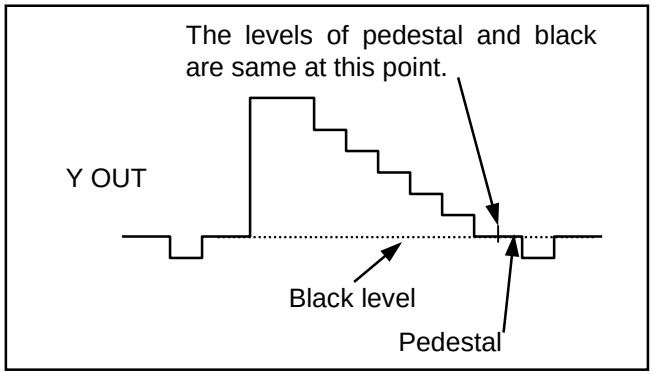
1. Confirm that the SCH indicator should be turned on when reference signal is inputted.
2. Set the WFM to SCH mode, and set the EXT reference mode.
   Observe the Reference signal (CHA) and adjust the PHASE VR of the WFM so that the SCH is correct portion before adjusting the VR600 as shown in figure.



4-9. Component Sync DC Adjustment

BOARD	V OUT (F2)
TP	Y OUT (CH B1)
ADJ.	VR301 (SYNC DC)
TAPE	625(PAL): VFM3680KM (L) Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM
SPEC.	SET-UP LEVEL = PEDESTAL LEVEL ± 3mV

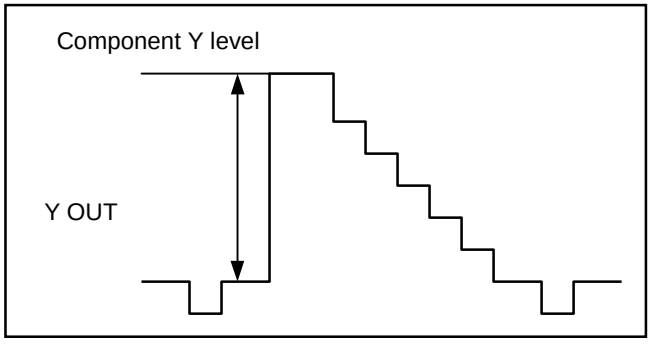
1. Play back the alignment tape at the color bar portion.
2. Adjust VR301 so that the black level is the same level as the pedestal level.



4-10. Component Y Level Adjustment

BOARD	V OUT (F2)
TP	Y OUT (CH B1)
ADJ.	VR402 (Y LEV)
TAPE	625(PAL): VFM3680KM (L) Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM
SPEC.	Y level: 700 ± 3mV

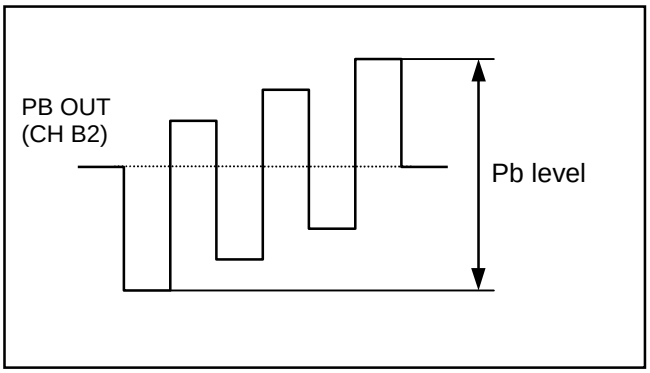
1. Play back the alignment tape at the color bar portion.
2. Adjust VR402 so that the Y level is in the specification.



4-11. Component Pb Level Adjustment

BOARD	V OUT (F2)
TP	Pb OUT (CH B2)
ADJ.	VR400 (PB LEV)
TAPE	625(PAL): VFM3680KM (L) Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM
SPEC.	Pb level : 700 ± 3mV

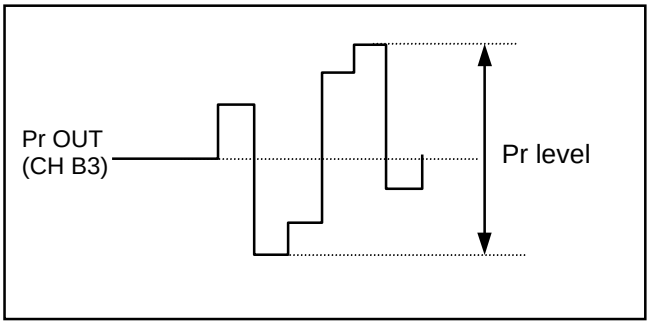
1. Play back the alignment tape at the color bar portion.
2. Adjust VR400 so that the Pb level is in the specification.



4-12. Component Pr Level Adjustment

BOARD	V OUT (F2)
TP	Pr OUT (CH B3)
ADJ.	VR401 (Pr LEV)
TAPE	625(PAL): VFM3680KM (L) Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM
SPEC.	Pr level : 700 ± 3mV

1. Play back the alignment tape at the color bar portion.
2. Adjust VR401 so that the Pr level is in the specification.



4-13. Component Y-Pb Timing Adjustment

BOARD	V OUT (F2)
TP	Y OUT (CH B1), Pb OUT (CH B2)
ADJ.	VR302 (Pb DL)
TAPE	625(PAL): VFM3680KM (L) Alignment Tape (Bowtie portion)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM (Bowtie mode)
SPEC.	Y Pb Timing : 0 ± 5nsec

1. Adjust VR302 so that the crossing point of the Bowtie signal becomes a center (Timing=0± 5nsec) as shown in figure 4-14.

<Note>

Incase of WFM does not have “Bowtie mode” (Y-Pb timing adjustment mode), if the oscilloscope has “ADD” and “INVERT” switch, it is possible to make the following waveform by those switch.

4-14. Component Y-Pr Timing Adjustment

BOARD	V OUT (F2)
TP	Y OUT (CH B1), Pr OUT (CH B3)
ADJ.	VR303 (Pr DL)
TAPE	625(PAL): VFM3680KM (L) Alignment Tape (Bowtie portion)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM (Bowtie mode)
SPEC.	Y Pr Timing : 0 ± 5nsec

1. Adjust VR302 so that the crossing point of the Bowtie signal becomes a center (Timing=0± 5nsec) as shown in figure 4-14.

<Note>

Incase of WFM does not have “Bowtie mode” (Y-Pb timing adjustment mode), if the oscilloscope has “ADD” and “INVERT” switch, it is possible to make the following waveform by those switch.

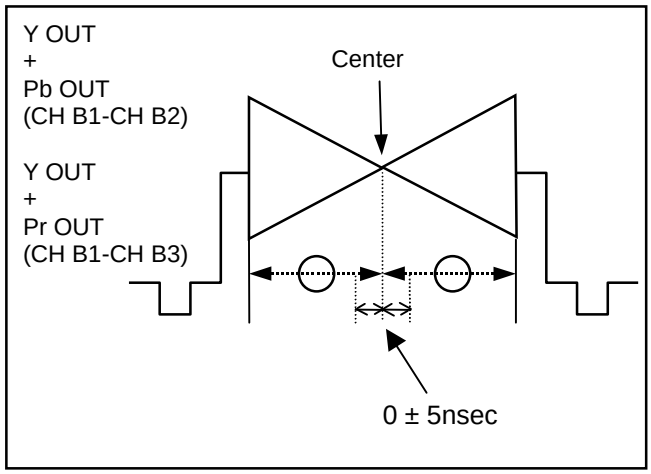
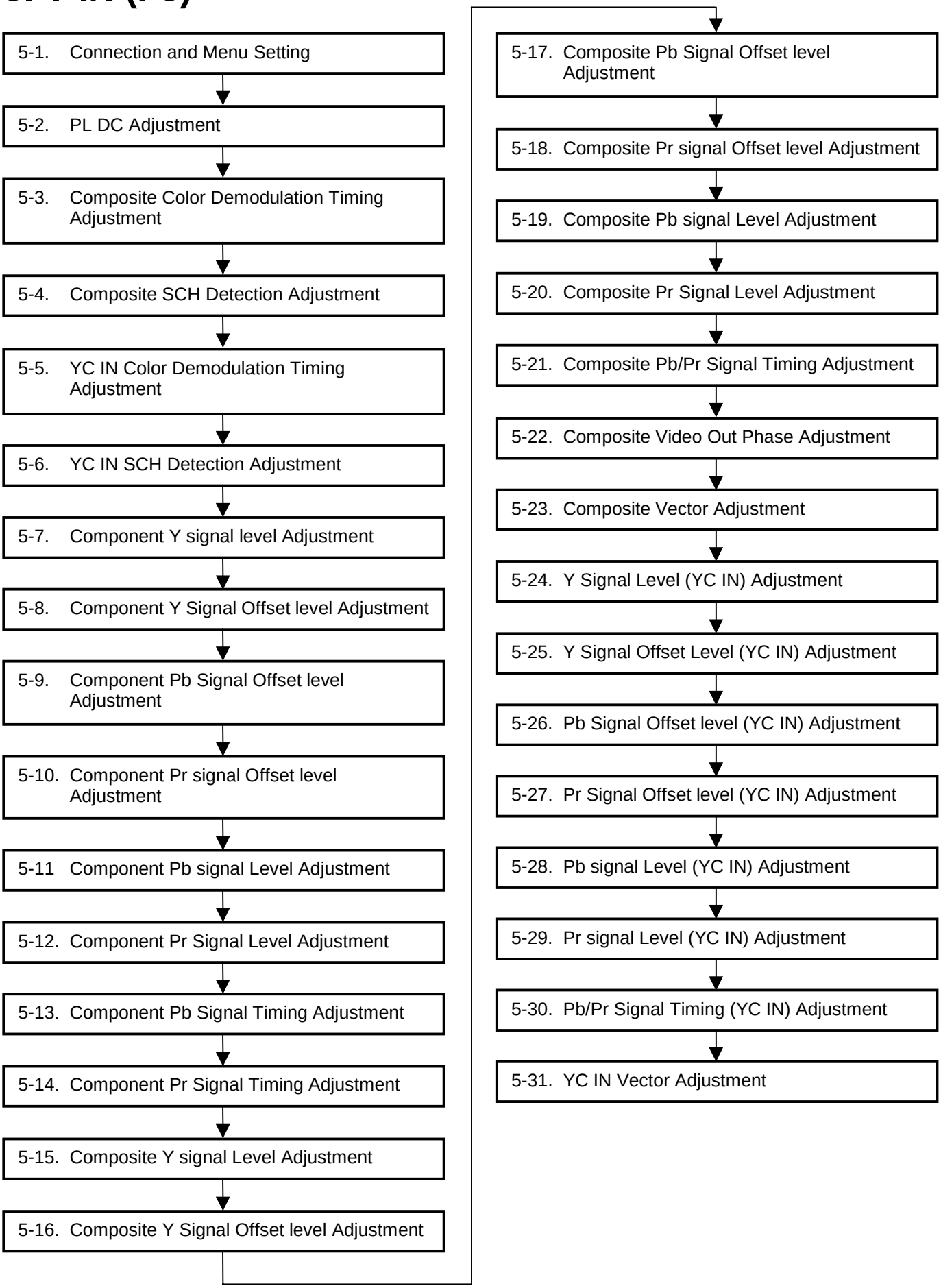
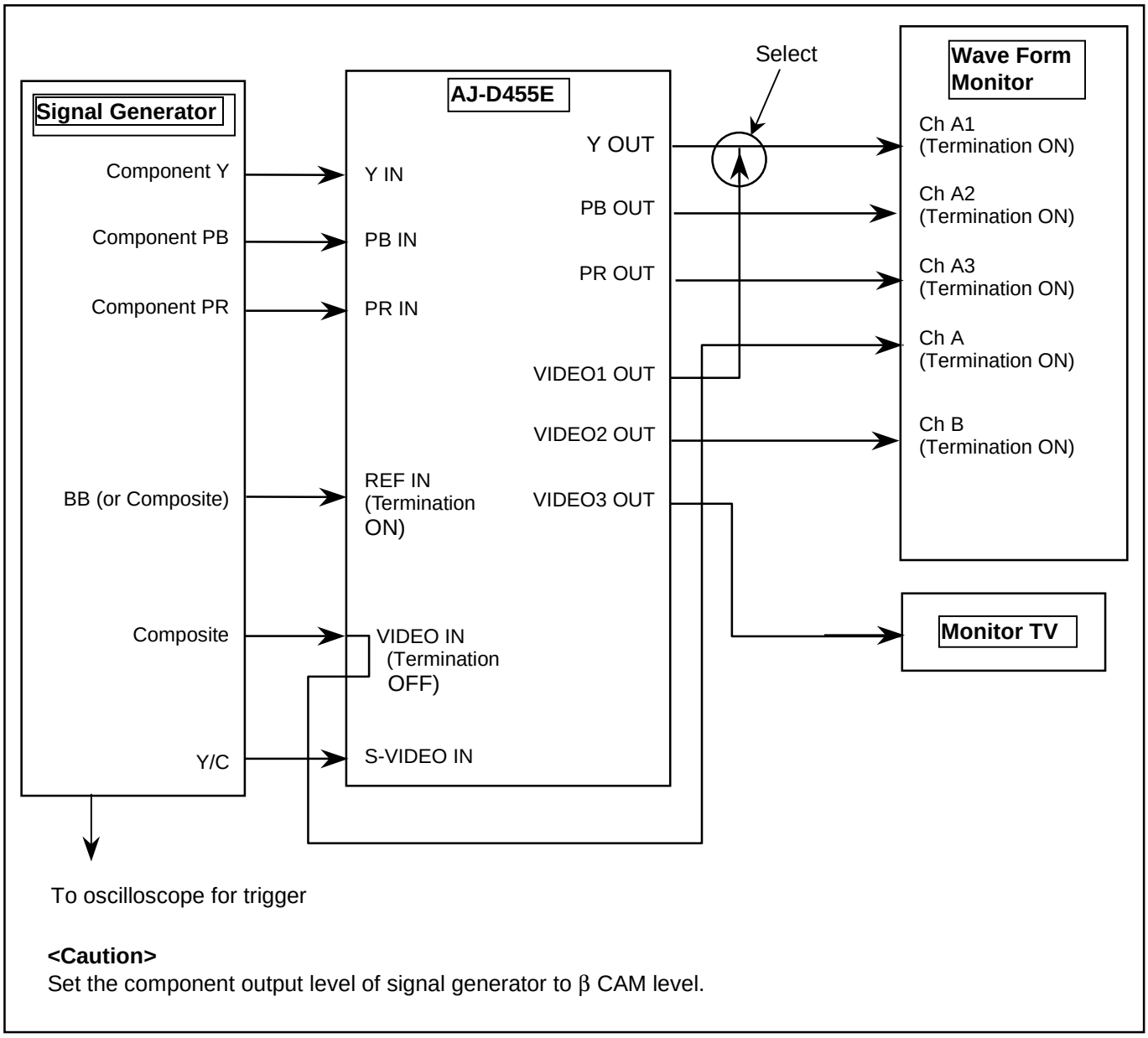


Fig. 4-14

5. V IN (F5)


5-1. Connection and Menu Setting
5-2. PL DC Adjustment
5-3. Composite Color Demodulation Timing Adjustment
5-4. Composite SCH Detection Adjustment
5-5. YC IN Color Demodulation Timing Adjustment
5-6. YC IN SCH Detection Adjustment
5-7. Component Y signal level Adjustment
5-8. Component Y Signal Offset level Adjustment
5-9. Component Pb Signal Offset level Adjustment
5-10. Component Pr signal Offset level Adjustment
5-11 Component Pb signal Level Adjustment
5-12. Component Pr Signal Level Adjustment
5-13. Component Pb Signal Timing Adjustment
5-14. Component Pr Signal Timing Adjustment
5-15. Composite Y signal Level Adjustment
5-16. Composite Y Signal Offset level Adjustment
5-17. Composite Pb Signal Offset level Adjustment
5-18. Composite Pr signal Offset level Adjustment
5-19. Composite Pb signal Level Adjustment
5-20. Composite Pr Signal Level Adjustment
5-21. Composite Pb/Pr Signal Timing Adjustment
5-22. Composite Video Out Phase Adjustment
5-23. Composite Vector Adjustment
5-24. Y Signal Level (YC IN) Adjustment
5-25. Y Signal Offset Level (YC IN) Adjustment
5-26. Pb Signal Offset level (YC IN) Adjustment
5-27. Pr Signal Offset level (YC IN) Adjustment
5-28. Pb signal Level (YC IN) Adjustment
5-29. Pr signal Level (YC IN) Adjustment
5-30. Pb/Pr Signal Timing (YC IN) Adjustment
5-31. YC IN Vector Adjustment

5-1. Connection and Menu Setting



<Caution>
Set the component output level of signal generator to β CAM level.

5-2. PLL DC Adjustment

BOARD	V IN (F5)
TP	TP552 (PLL DC)
ADJ.	VC500 (VCO DC)
TAPE	-----
INPUT	Analog Component Signal (100% Color Bar)
MODE	EE
M. EQ	Oscilloscope
SPEC.	DC voltage : 0 ± 0.1V

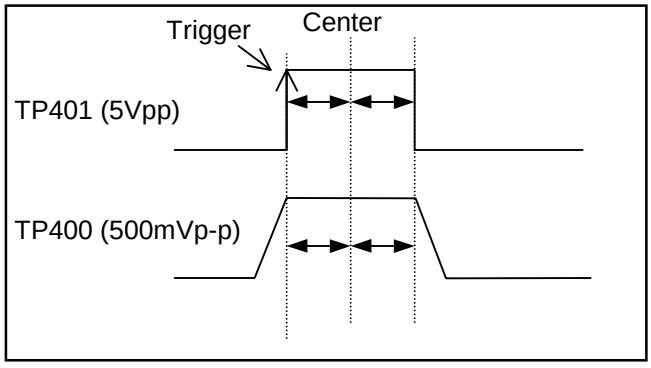
1. Connect the scope to TP552. And adjust VC500 so that the DC voltage is in the specification.

5-3. Composite Color Demodulation Timing Adjustment

BOARD	V IN (F5)
TP	TP400, TP401
ADJ.	VR401 (RSTH SITE), Service Menu
TAPE	-----
INPUT	Analog Composite Signal (100% Color Bar)
MODE	EE
M. EQ	Oscilloscope
SPEC.	Center

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-2 CMPST ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Set the numerical value of the **E08 SITE CAXIS** to 127.
5. Connect the scope CH1 to TP401 and CH2 to TP400.
6. Adjust VR401 so that the timing of the center portion of these pulses becomes same timing.
7. Set the **E08 SITE CAXIS** to –27.
8. Close the menu.

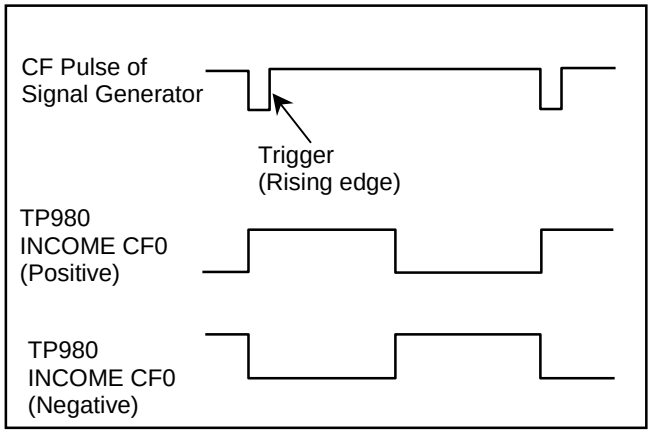
<Note>
After this adjustment, 5-23.Composite Vector Adjustment should be performed.



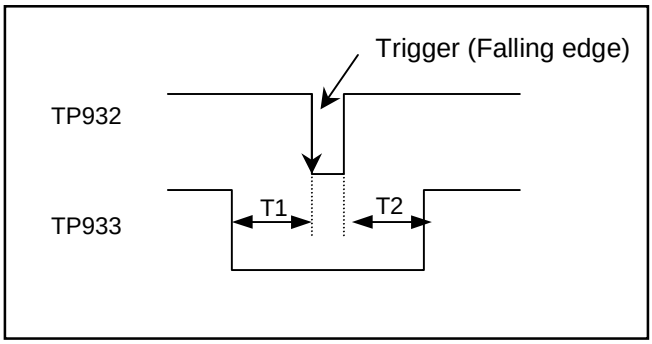
5-4. Composite SCH Detection Adjustment

BOARD	V IN (F5)
TP	TP980 (INCF), TP932, TP933
ADJ.	VR402 (SCH SITE)
TAPE	-----
INPUT	CF Signal Analog Composite Signal (100% Color Bar)
MODE	EE
M. EQ	Oscilloscope
SPEC.	T1=T2 ± 0.5msec

1. Connect the scope CH1 to TP980 and CH2 to CF Pulse of the signal generator. And set the trigger channel to CH2. (Triggered by rising edge.)
2. Set VR402 fully counterclockwise.
3. If income CF0 pulse of the TP980 is positive pulse, turn the VR402 clockwise until changing from positive to negative as shown bellow.
4. Turn the VR402 clockwise slowly until just changing from negative to positive as shown below.



5. Connect the scope CH1 to TP932 and CH2 to TP933.
6. Adjust VR402 so that the low portion of TP932 is positioned at the center of low portion at TP933. (T1=T2 ± 0.5msec)

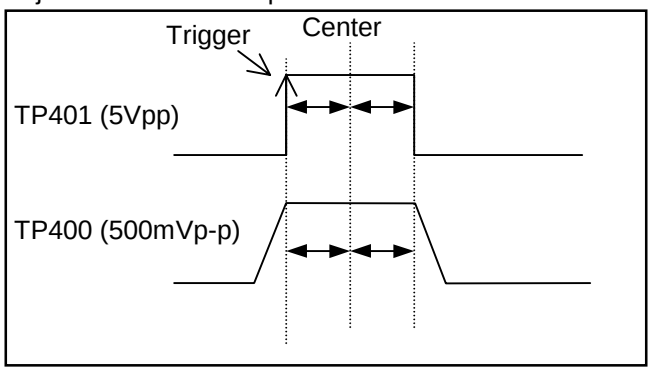


5-5. YC IN Color Demodulation Timing Adjustment

BOARD	V IN (F5)
TP	TP400, TP401
ADJ.	VR403 (RSTH YC), Service Menu
TAPE	-----
INPUT	Analog YC Signal (100% Color Bar)
MODE	EE
M. EQ	Oscilloscope
SPEC.	Center

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-3 YC ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Set the numerical value of the **E08 YC CAXIS** to 127.
5. Connect the scope CH1 to TP401 and CH2 to TP400.
6. Adjust VR403 so that the timing of the center portion of these pulses becomes same timing.
7. Set the **E08 SITE CAXIS** to –27.
8. Close the menu.

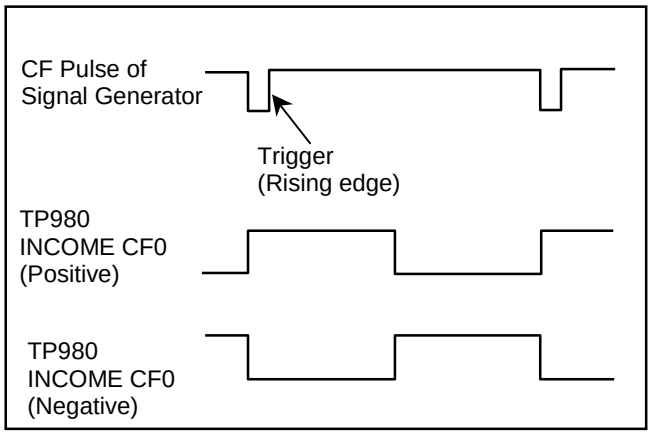
<Note>
After this adjustment, 5-23. Composite Vector Adjustment should be performed.



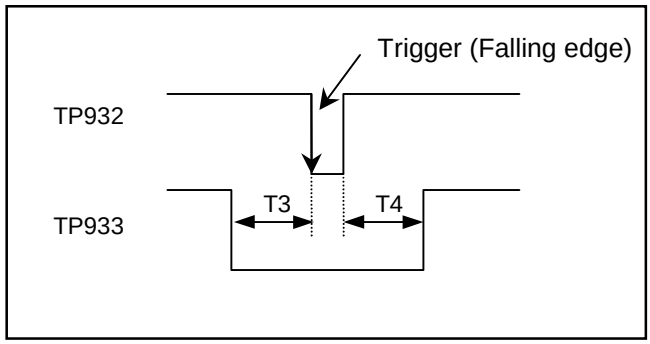
5-6. YC IN SCH Detection Adjustment

BOARD	V IN (F5)
TP	TP980 (INCF), TP932, TP933
ADJ.	VR404 (SCH YC)
TAPE	-----
INPUT	CF Signal Analog Composite Signal (100% Color Bar)
MODE	EE
M. EQ	Oscilloscope
SPEC.	T3=T4 ± 0.5msec

1. Connect the scope CH1 to TP980 and CH2 to CF Pulse of the signal generator. And set the trigger channel to CH2. (Triggered by rising edge.)
2. Set VR404 fully counterclockwise.
3. If income CF0 pulse of the TP980 is positive pulse, turn the VR404 clockwise until changing from positive to negative as shown bellow.
4. Turn the VR404 clockwise slowly until just changing from negative to positive as shown below.



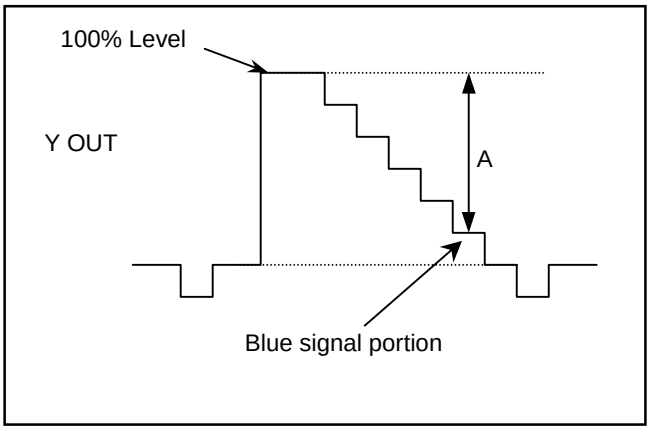
5. Connect the scope CH1 to TP932 and CH2 to TP933.
6. Adjust VR404 so that the low portion of TP932 is positioned at the center of low portion at TP933. (T1=T2 ± 0.5msec)



5-7. Component Y signal level Adjustment

BOARD	V IN (F5)
TP	Component Y OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Component Signal (100% Color Bar)
MODE	EE
M. EQ	Analog WFM
SPEC.	Y signal(100%←→Blue) : 620 ± 3mV

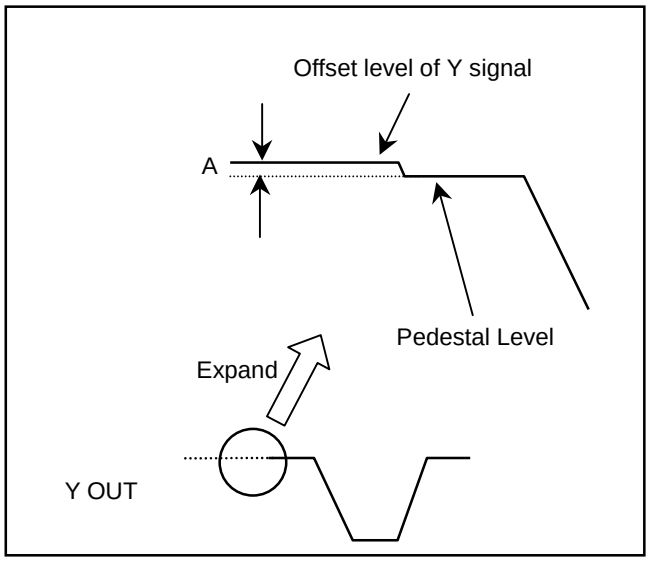
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-1 CMPNT ADJUST** and press the "SET" button to open the CMPNT ADJUST menu.
4. Adjust the **E00 NENT Y GAIN** so that the level "A" is in the specification. (Level "A" is between 100% portion and blue signal portion.)
5. Close the menu.



5-8. Component Y Signal Offset level Adjustment

BOARD	V IN (F5)
TP	Component Y OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Component Signal (100% Color Bar)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pedestal level and the offset level of Y signal: 0 ± 3mV

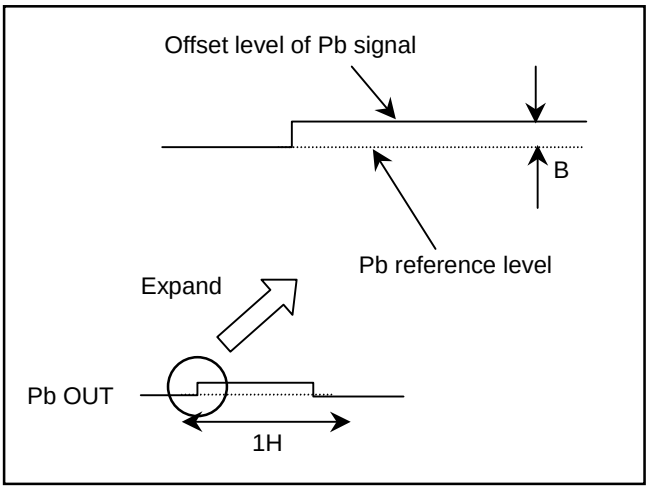
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-1 CMPNT ADJUST** and press the "SET" button to open the CMPNT ADJUST menu.
4. Adjust the **E01 NENT Y OFS** so that the level "A" is in the specification. (Level "A" is the difference between the pedestal level and offset level of Y signal.)
5. Close the menu.



5-9. Component Pb Signal Offset level Adjustment

BOARD	V IN (F5)
TP	Component PB OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Component Signal (0% Flat Field)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pb reference level and the offset level of the Pb signal. (B) : 0 ± 3mV

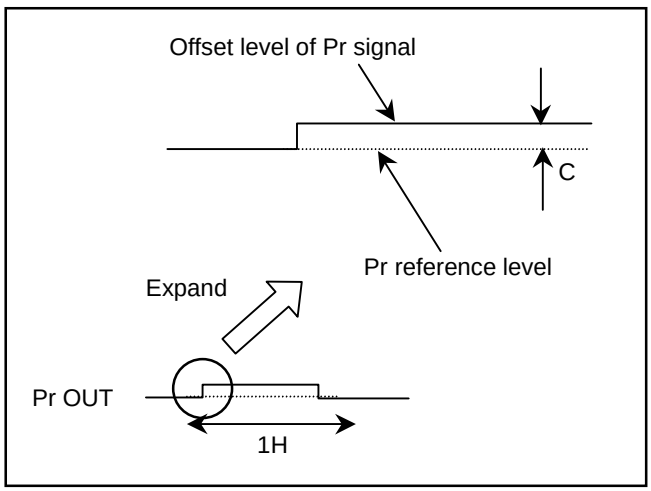
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-1 CMPNT ADJUST** and press the "SET" button to open the CMPNT ADJUST menu.
4. Adjust the **E03 NENT PB OFS** so that the level "B" is in the specification. (Level "B" is the difference between the Pb reference level and the offset level of the Pb signal.)
5. Close the menu.



5-10.Component Pr signal Offset level Adjustment

BOARD	V IN (F5)
TP	Component PR OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Component Signal (0% Flat Field)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pr reference level and the offset level of the Pr signal. (C) : 0 ± 3mV

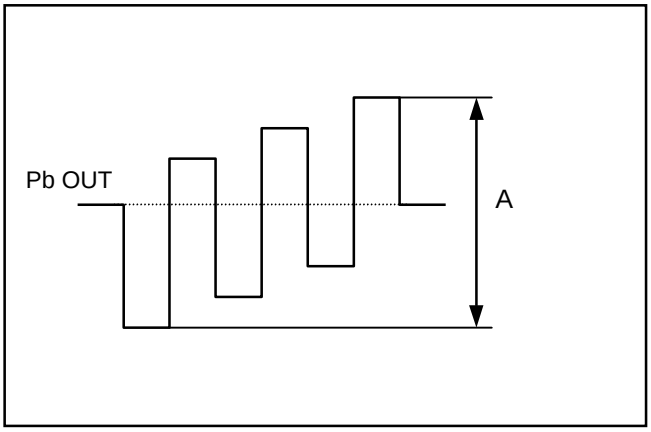
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-1 CMPNT ADJUST** and press the "SET" button to open the CMPNT ADJUST menu.
4. Adjust the **E06 NENT PR OFS** so that the level "C" is in the specification. (Level "C" is the difference between the Pr reference level and the offset level of the Pr signal.)
5. Close the menu.



5-11 Component Pb signal Level Adjustment

BOARD	V IN (F5)
TP	Component PB OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Component Signal (100% Color Bar)
MODE	EE
M. EQ	Analog WFM
SPEC.	Pb signal level (A): 700 ± 3mV

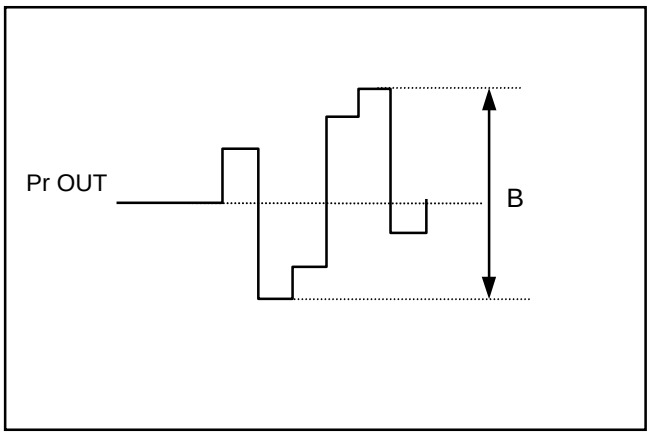
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-1 CMPNT ADJUST** and press the "SET" button to open the CMPNT ADJUST menu.
4. Adjust the **E02 NENT PB GAIN** so that the level "A" is in the specification.
5. Close the menu.



5-12.Component Pr Signal Level Adjustment

BOARD	V IN (F5)
TP	Component PR OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Component Signal (100% Color Bar)
MODE	EE
M. EQ	Analog WFM
SPEC.	Pr signal level (B): 700 ± 3mV

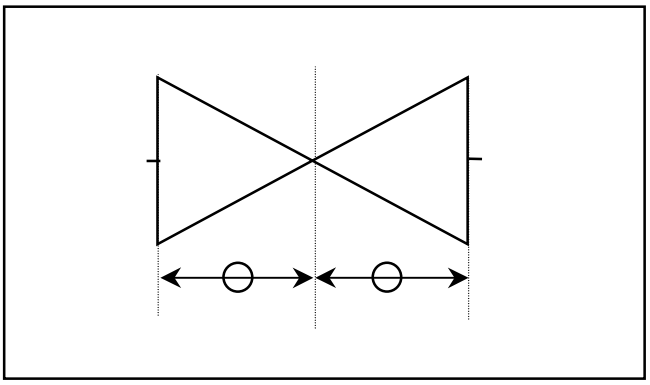
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-1 CMPNT ADJUST** and press the "SET" button to open the CMPNT ADJUST menu.
4. Adjust the **E05 NENT PR GAIN** so that the level "B" is in the specification.
5. Close the menu.



5-13.Component Pb Signal Timing Adjustment

BOARD	V IN (F5)
TP	Component Pb OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Component Signal (Bowtie)
MODE	EE
M. EQ	Analog WFM (Bowtie mode)
SPEC.	Relative Timing: 0 ± 5nsec

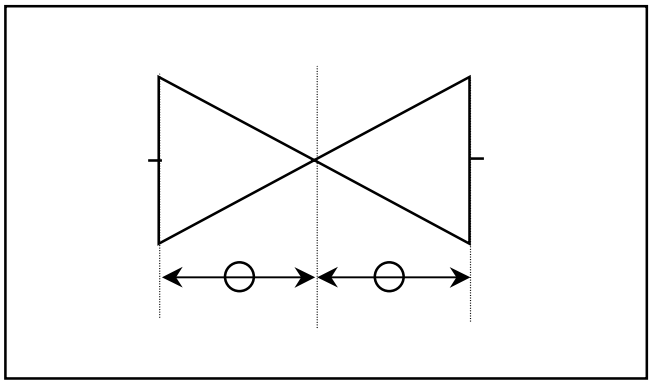
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-1 CMPNT ADJUST** and press the "SET" button to open the CMPNT ADJUST menu.
4. Adjust the **E04 NENT PB TMG** so that the crossing point of the Bowtie signal becomes a center (Timing = 0 ± 5nsec).
5. Close the menu.



5-14.Component Pr Signal Timing Adjustment

BOARD	V IN (F5)
TP	Component Pr OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Component Signal (Bowtie) βCAM Level
MODE	EE
M. EQ	Analog WFM (Bowtie mode)
SPEC.	Relative Timing: 0 ± 5nsec

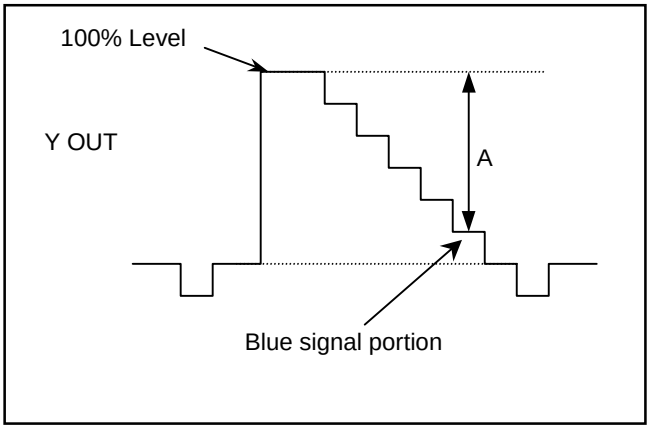
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-1 CMPNT ADJUST** and press the "SET" button to open the CMPNT ADJUST menu.
4. Adjust the **E07 NENT PR TMG** so that the crossing point of the Bowtie signal becomes a center (Timing = 0 ± 5nsec).
5. Close the menu.



5-15.Composite Y signal Level Adjustment

BOARD	V IN (F5)
TP	Component Y OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Composite Signal (100% Color Bar)
MODE	EE
M. EQ	Analog WFM
SPEC.	Y signal (A)(100%←→Blue) : 620 ± 3mV

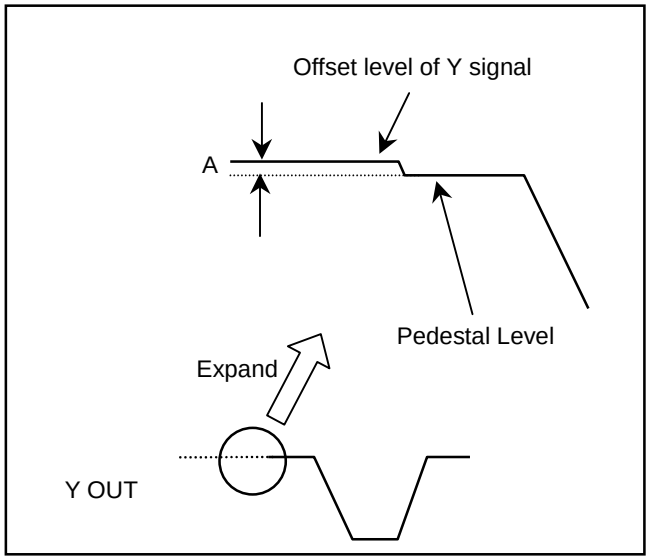
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-2 CMPST ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Adjust the **E00 SITE Y GAIN** so that the level "A" is in the specification. (Level "A" is between 100% portion and Blue signal portion.)
5. Close the menu.



5-16.Composite Y Signal Offset level Adjustment

BOARD	V IN (F5)
TP	Component Y OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Composite Signal (100% Colour Bar)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pedestal level and the offset level of Y signal (A) : 0 ± 3mV

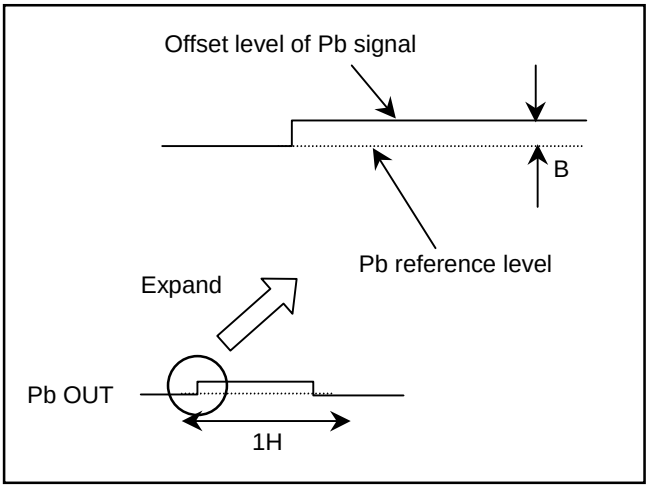
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-2 CMPST ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Adjust the **E01 SITE Y OFS** so that the level "A" is in the specification. (Level "A" is the difference between the pedestal level and offset level of Y signal.)
5. Close the menu.



5-17.Composite Pb Signal Offset level Adjustment

BOARD	V IN (F5)
TP	Component Pb OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Composite Signal (0% Flat Field)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pb reference level and the offset level of the Pb signal. (B) : 0± 3mV

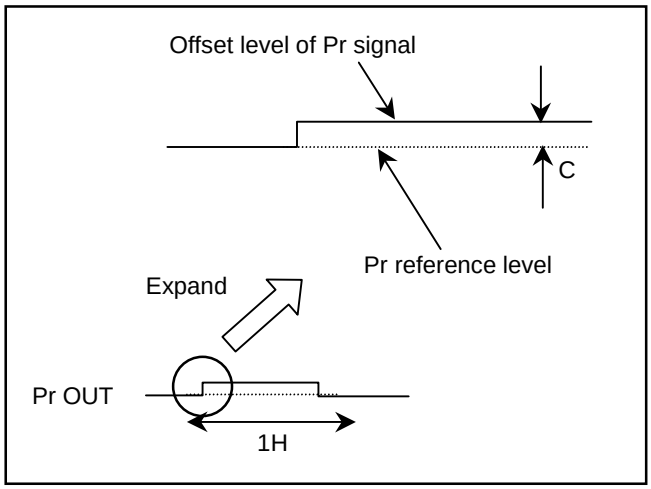
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-2 CMPST ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Adjust the **E03 SITE PB OFS** so that the level "B" is in the specification. (Level "B" is the difference between the Pb reference level and the offset level of the Pb signal.)
5. Close the menu.



5-18.Composite Pr signal Offset level Adjustment

BOARD	V IN (F5)
TP	Component Pr OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Composite Signal (0% Flat Field)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pr reference level and the offset level of the Pr signal. (C) : 0± 3mV

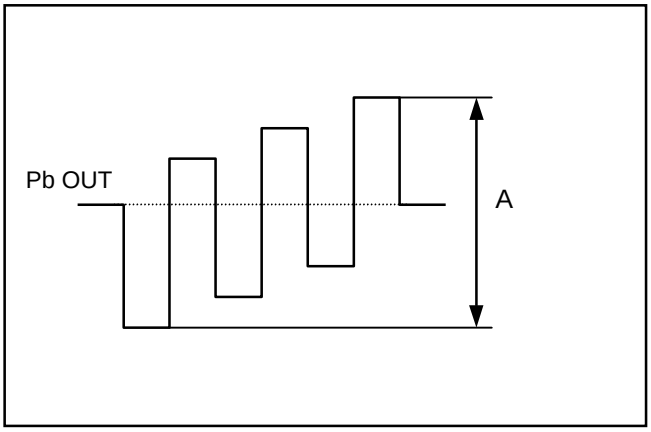
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-2 CMPST ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Adjust the **E06 SITE PR OFS** so that the level "C" is in the specification. (Level "C" is the difference between the Pr reference level and the offset level of the Pr signal.)
5. Close the menu.



5-19.Composite Pb signal Level Adjustment

BOARD	V IN (F5)
TP	Composite PB OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Composite Signal (100% Colour Bar)
MODE	EE
M. EQ	Analog WFM
SPEC.	Pb signal level (A): 700± 3mV

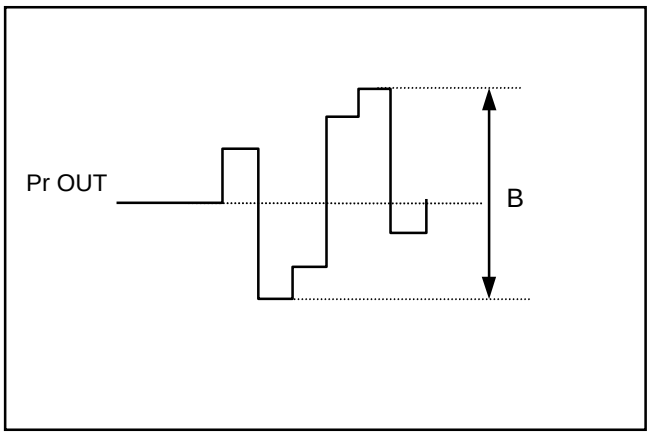
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-2 CMPST ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Adjust the **E02 SITE PB GAIN** so that the level "A" is in the specification.
5. Close the menu.



5-20.Composite Pr Signal Level Adjustment

BOARD	V IN (F5)
TP	Composite PR OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Composite Signal (100% Colour Bar)
MODE	EE
M. EQ	Analog WFM
SPEC.	Pr signal level (B): 700± 3mV

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-2 CMPST ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Adjust the **E05 SITE PR GAIN** so that the level "B" is in the specification.
5. Close the menu.

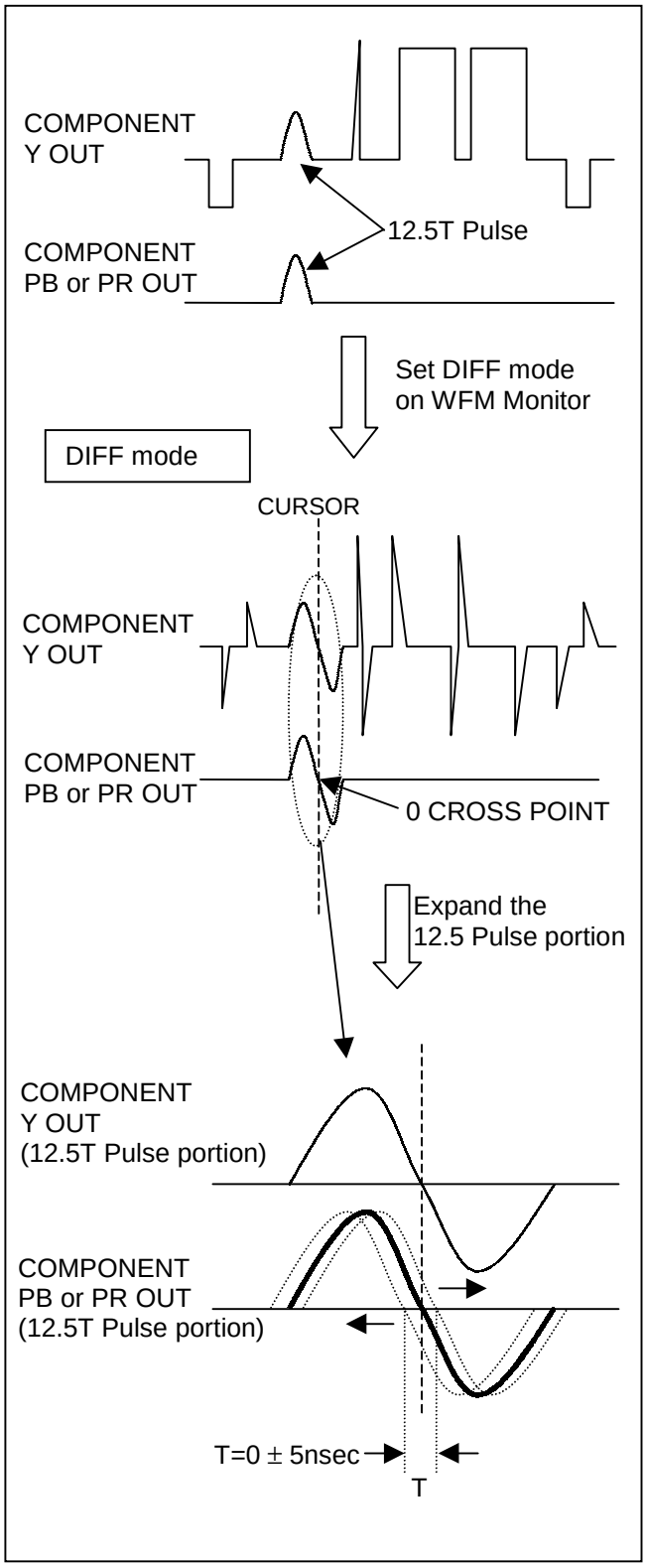


5-21.Composite Pb/Pr Signal Timing Adjustment

BOARD	V IN (F5)
TP	Y, Pr, Pb OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Composite Signal (Pulse and Bar with 12.5T modulation Signal)
MODE	EE
M. EQ	Analog WFM (DIFF mode)
SPEC.	T = 0± 5nsec

1. Confirm that the 12.5T modulation signal portion of Component Y OUT is displayed correctly on the WFM as shown in figure.
2. Confirm that the 12.5T modulation signal portion of Component PB and PR OUT is displayed correctly on the WFM as shown in figure.
3. Set WFM monitor to DIFF mode. In the DIFF mode, waveform of Y and PB or PR signals are integrated as shown in figure.
4. Expand the 12.5 pulse portion (an ellipse dotted portion as indicated in figure) and set the cursor to 0 cross point as shown in figure.
5. Open the SERVICE MENU (Refer to SEC1 Service Information.)
6. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
7. Select **E-2 CMPST ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
8. Adjust the **E04 SITE PB TMG or E07 SITE PR TMG** so that the signal timing between Y and PB or PR signal is in specification.
9. Close the Menu.

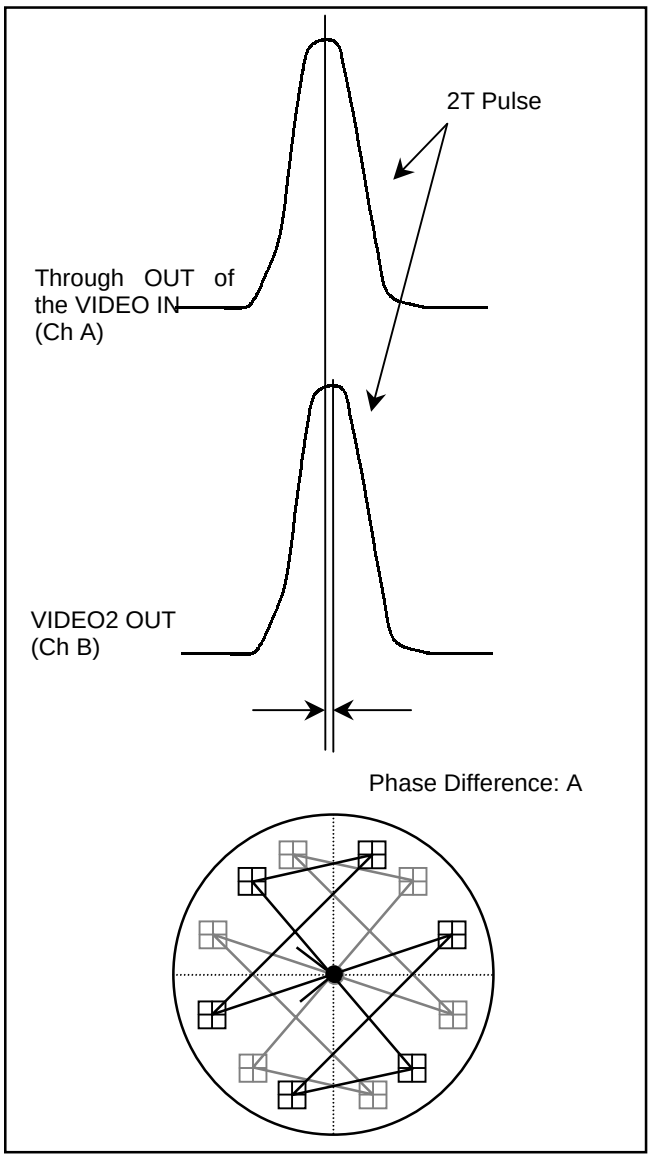
NOTE:
Please use WFM Monitor with DIFF mode.



5-22.Composite Video Out Phase Adjustment

BOARD	V IN (F5)
TP	VIDEO IN THRU VIDEO2 OUT
ADJ.	VR550 (SYNC0)
TAPE	-----
INPUT	Analog Composite Signal (Pulse and Bar with 2T modulation Signal) (100% Colour Bar)
MODE	EE
M. EQ	Analog WFM
SPEC.	Phase Difference A : 0 ± 10nsec

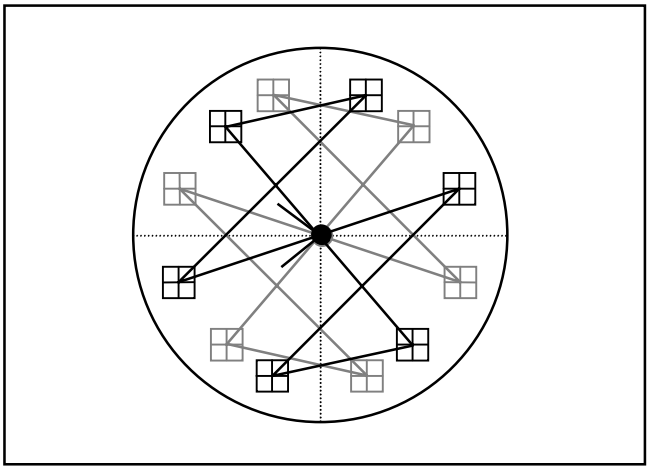
1. Input Pulse and Bar signal to Video IN terminal. Adjust VR550 (SYNC0) so that the phase difference of 2T pulse between through out of the VIDEO IN and the VIDEO OUT 2 is in the specification.
2. Change input signal to 100% colour bar signal. Then confirm that signal line on a vector scope should be linear line. If it is not, execute fine adjustment of VR550.



5-23.Composite Vector Adjustment

BOARD	V IN (F5)
TP	VIDEO 1 OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Composite Signal (100% Colour Bar)
MODE	EE
M. EQ	Analog WFM
SPEC.	All vector dots are in the inner box

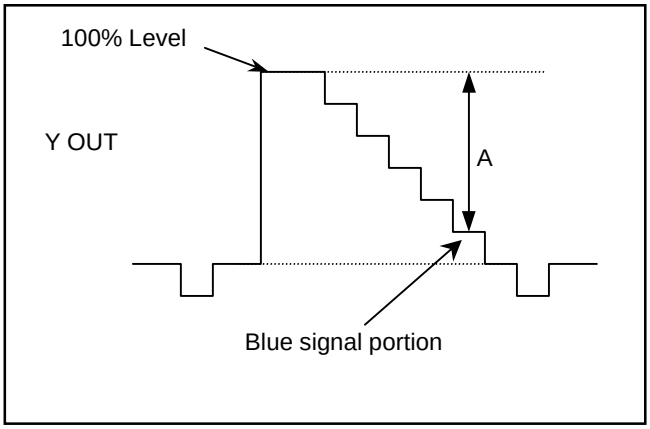
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-2 CMPST ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Adjust **E08 SITE CAXIS** so that the all vector dots are in the inner box.
5. Close the menu.



5-24.Y Signal Level (YC IN) Adjustment

BOARD	V IN (F5)
TP	Component Y OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog YC Signal (100% Colour Bar)
MODE	EE
M. EQ	Analog WFM
SPEC.	Y signal Level: 620 ± 3mV

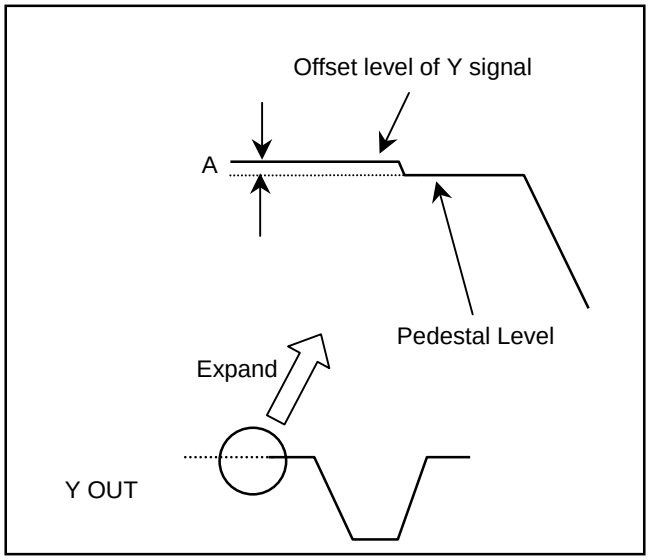
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-3 YC ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Adjust the **E00 YC Y GAIN** so that the level "A" is in the specification. (Level "A" is between 100% portion and blue signal portion.)
5. Close the menu.



5-25.Y Signal Offset Level (YC IN) Adjustment

BOARD	V IN (F5)
TP	Component Y OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog YC Signal (0% Flat Field)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pedestal level and the offset level of Y signal (A) : 0 ± 3mV

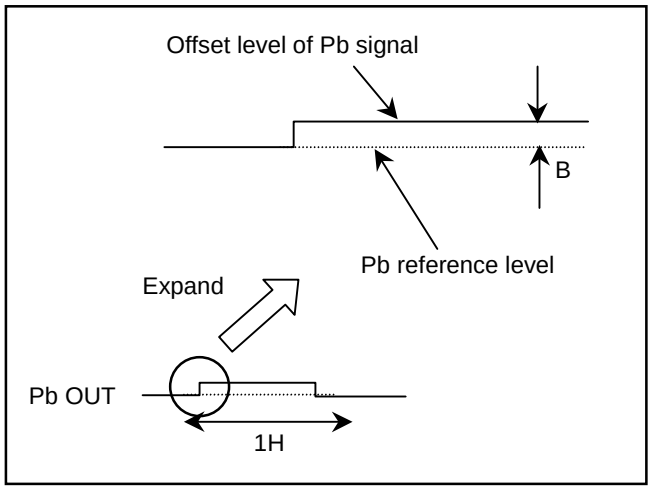
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-3 YC ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Adjust the **E01 YC Y OFS** so that the level "A" is in the specification. (Level "A" is the difference between the pedestal level and offset level of Y signal.)
5. Close the menu.



5-26.Pb Signal Offset level (YC IN) Adjustment

BOARD	V IN (F5)
TP	Component Pb OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog YC Signal (0% Flat Field)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pb reference level and the offset level of the Pb signal. (B) : 0± 3mV

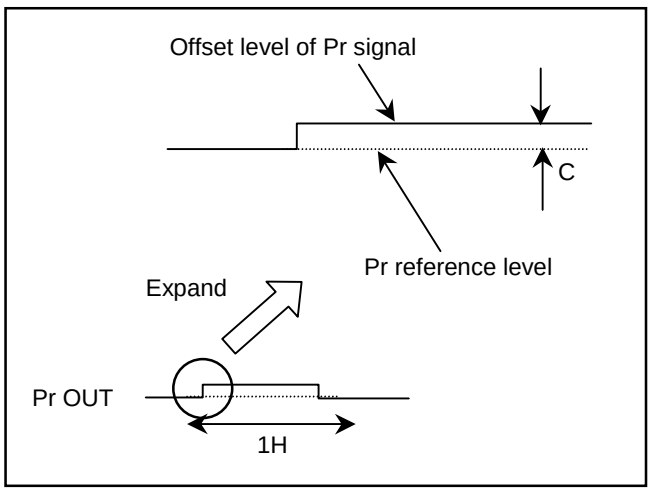
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-3 YC ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Adjust the **E03 YC PB OFS** so that the level "B" is in the specification. (Level "B" is the difference between the Pb reference level and the offset level of the Pb signal.)
5. Close the menu.



5-27.Pr Signal Offset level (YC IN) Adjustment

BOARD	V IN (F5)
TP	Component Pr OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog YC Signal (0% Flat Field)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pr reference level and the offset level of the Pr signal. (C) : 0± 3mV

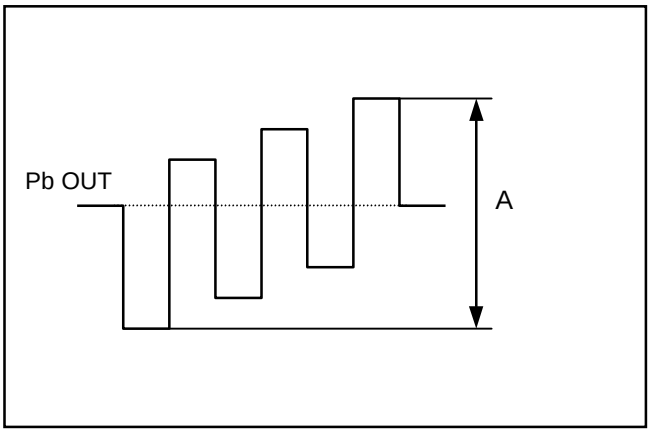
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-3 YC ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Adjust the **E06 YC PR OFS** so that the level "C" is in the specification. (Level "C" is the difference between the Pr reference level and the offset level of the Pr signal.)
5. Close the menu.



5-28.Pb signal Level (YC IN) Adjustment

BOARD	V IN (F5)
TP	Component Pb OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog YC Signal (100% Colour Bar)
MODE	EE
M. EQ	Analog WFM
SPEC.	Pb signal level (A): 700 ± 3mV

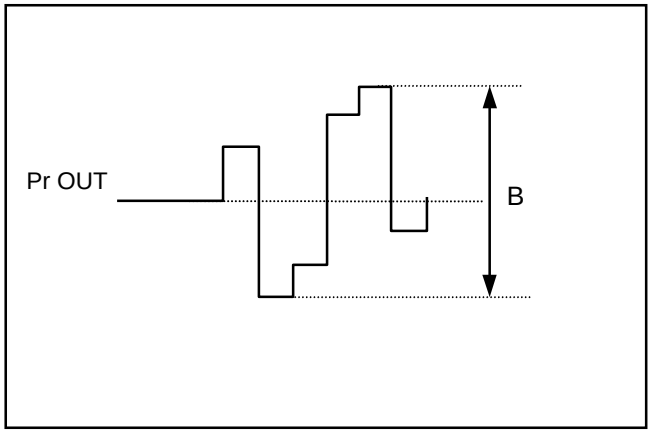
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-3 YC ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Adjust the **E02 YC PB GAIN** so that the level "A" is in the specification.
5. Close the menu.



5-29.Pr signal Level (YC IN) Adjustment

BOARD	V IN (F5)
TP	Component PR OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog YC Signal (100% Colour Bar)
MODE	EE
M. EQ	Analog WFM
SPEC.	Pr signal level (B): 700 ± 3mV

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-3 YC ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Adjust the **E05 YC PR GAIN** so that the level "B" is in the specification.
5. Close the menu.

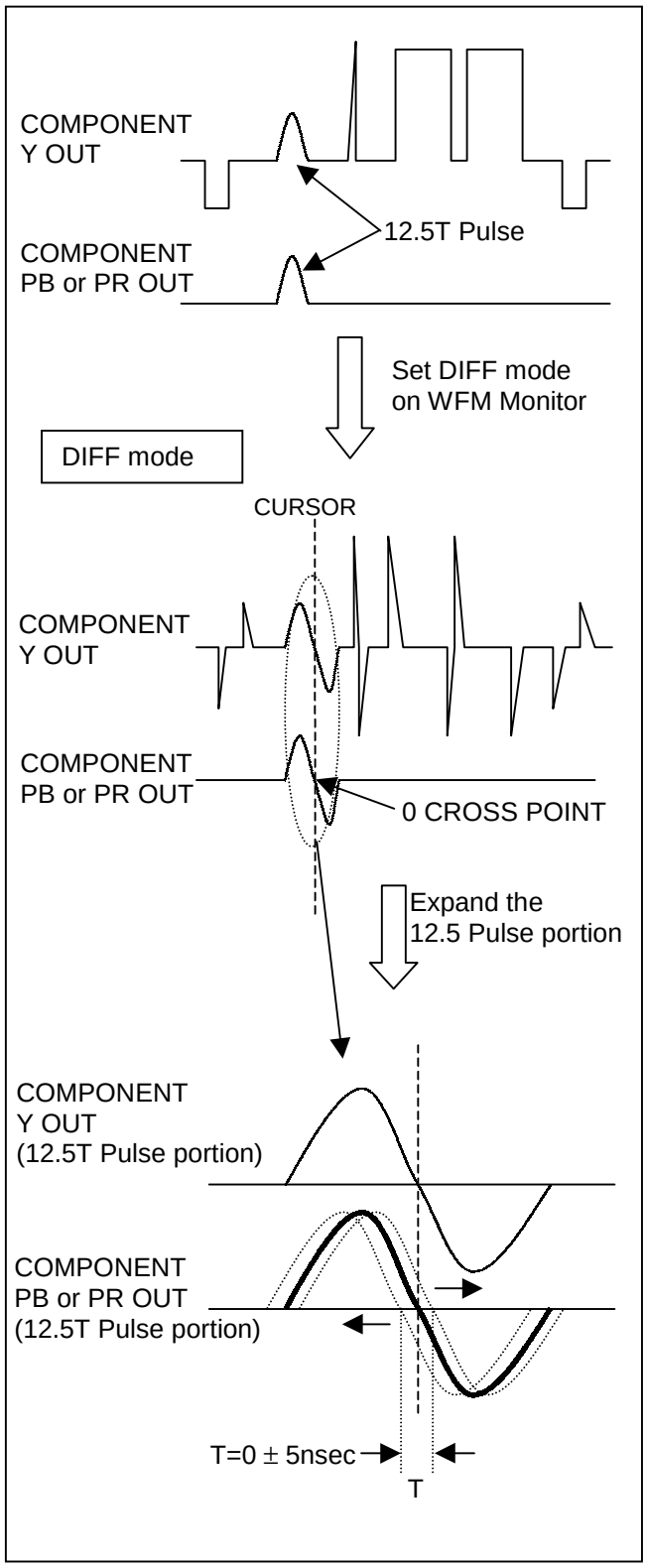


5-30.Pb/Pr Signal Timing (YC IN) Adjustment

BOARD	V IN (F5)
TP	Y, Pr, Pb OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog YC Signal (Pulse and Bar with 12.5T modulation Signal)
MODE	EE
M. EQ	Analog WFM (DIFF mode)
SPEC.	T = 0± 5nsec

1. Confirm that the 12.5T modulation signal portion of Component Y OUT is displayed correctly on the WFM as shown in figure.
2. Confirm that the 12.5T modulation signal portion of Component PB or PR OUT is displayed correctly on the WFM as shown in figure.
3. Set WFM monitor to DIFF mode. In the DIFF mode, waveform of Y and PB or PR signals are integrated as shown in figure.
4. Expand the 12.5 pulse portion (an ellipse dotted portion as indicated in figure) and set the cursor to 0 cross point as shown in figure.
5. Open the SERVICE MENU (Refer to SEC1 Service Information.)
6. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
7. Select **E-3 YC ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
8. Adjust the **E04 YC PB TMG or E07 YC PR TMG** so that the signal timing between Y and PB or PR signal is in the specification.
9. Close the Menu.

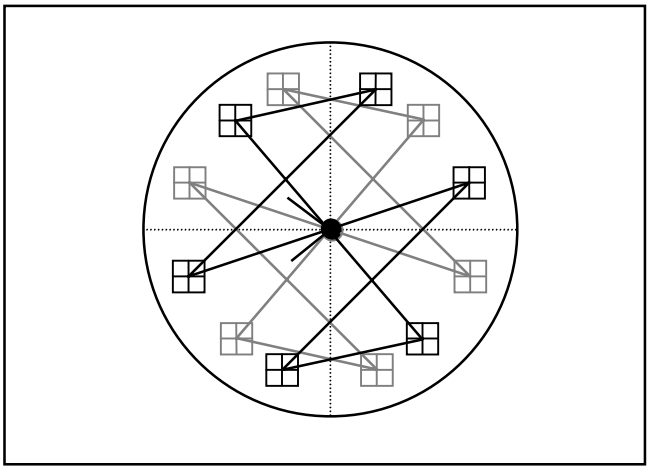
NOTE:
Please use WFM Monitor with DIFF mode.



5-31.YC IN Vector Adjustment

BOARD	V IN (F5)
TP	VIDEO 1 OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog YC Signal (100% Colour Bar with 7.5% Set-up)
MODE	EE
M. EQ	Analog WFM
SPEC	All vector dots are in the inner box

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-3 YC ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Adjust **E08 YC CAXIS** so that the all vector dots are in the inner box.
5. Close the menu.



6. AUDIO (F1) and RF/CUE

6-1. Setting

1. Set the audio impedance switches on the Audio (F1) board as shown below.

   SW100 : HIGH SW101 : HIGH

2. Set the Front Switch as shown bellow.

REC VR(CH1,CH2)	Center
Audio IN	ANALOG
REMOTE/LOCAL	LOCAL
HEAD PHONES	ST
HP VR	Center

1. Set the Audio Analyzer as shown below.

Audio Analyzer	
GENERATOR OUTPUT	50Ω (A&B, BAL, FLOAT)
ANALYZE CHA INPUT	100KΩ
ANALYZE CHB INPUT	100KΩ
UNIT SETTING	dBu

<Service Menu Setting>

1. Open the Service Menu. (Refer to SEC1 Service Information.)
2. Select the **G00: AUDIO ADJUST**.
3. Set the items as shown below

MENU	Setting
G02:REF LEVEL2	0dB
G03:REF LV INI	0dB
G09:LINE OUT CUE	OFF

<User Menu Setting>

1. Open the User Menu and set the items as shown below.

MENU	Setting
700 CH1 IN LEV	0dB
701 CH2 IN LEV	0dB
703 CH1 OUT LEV	0dB
704 CH2 OUT LEV	0dB
714 REC CH1	CH1
715 REC CH2	CH2
716 REC CUE	CH1
718 DV OUTPUT	ST1
719 PB FADE	AUTO
720 EMBEDED AUD	ON
721 LINE CH SEL	PCM
722 INT SIG	OFF
723 DV PB ATT	OFF
729 REC PT MUT	OFF
731 REF LEVEL	FS-18

6-2. CH1, CH2 Output Level Adjustment

BOARD	AUDIO (F1)
TP	AUDIO OUT (CH1, CH2)
ADJ.	VR300 (CH1 OUT LV) VR301 (CH2 OUT LV)
TAPE	-----
INPUT	INT SIG
MODE	EE
M. EQ	Oscilloscope, Monitor TV, Audio Analyzer
SPEC.	0dBu ± 0.2dB

1. Set the SET-UP MENU as shown bellow.
   722 INT SIG : ON
2. Adjust VR300 so that the CH1 level is in the specification.
3. Adjust VR301 so that the CH2 level is in the specification.
4. Confirm that the level meter on the front panel is displayed at –18dB.

6-3. CH1, CH2 Input Level Adjustment

BOARD	AUDIO (F1)
TP	AUDIO OUT (CH1, CH2)
ADJ.	VR200 (CH1 IN LV) VR201 (CH2 IN LV)
TAPE	-----
INPUT	LINE IN CH1,2 (1KHz 0dBu, Sinewave)
MODE	EE
M. EQ	Oscilloscope, Monitor TV, Audio Analyzer
SPEC.	0dBu ± 0.2dB

1. Adjust VR200 so that the CH1 level is in the specification.
2. Adjust VR201 so that the CH2 level is in the specification.

6-4. CUE BIAS CURRENT Adjustment

BOARD	RF/CUE
TP	TP4005 [RF/CUE Board] TP4006 (GND) [RF/CUE Board]
ADJ.	VR4001(BIAS), FL4001(Core)
TAPE	Blank Tape
INPUT	-----
MODE	REC
M. EQ	Oscilloscope, VTVM
SPEC.	7mVrms ± 0.5 mVrms

1. Set the VR4001 (BIAS) to the center position.
2. Connect the Vacuum Tube Volt Meter between TP4005 (HOT) and TP4006 (GND).
   Adjust FL4001 and VR4001 so that the voltage is in the specification.

6-5. CUE PB Level Adjustment

BOARD	AUDIO (F1)
TP	AUDIO OUT (CH1)
ADJ.	Service Menu VR800 (PB LEVEL)
TAPE	VFM3580KM/KL
INPUT	-----
MODE	EE
M. EQ	Oscilloscope, Monitor TV, Audio Analyzer
SPEC.	0dBu ± 1.0dB

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **G00: AUDIO ADJUST** and press the "SET" button to open the AUDIO ADJUST MENU.
3. Set the **G09 LINE OUT CUE** to ON.

<Caution>
During this adjustment, do not close the Service Menu. The setting of G09 LINE OUT CUE will be reset to OFF automatically.

4. Playback the CUE level master tape (25M), and adjust VR800 (PB LEVEL) so that the LINE OUT CH1 level is in the specification.
5. Close the menu.

<Caution>
1. Clean the A/C head, before this adjustment is executed.
2. Confirm the tape path condition around A/C head.

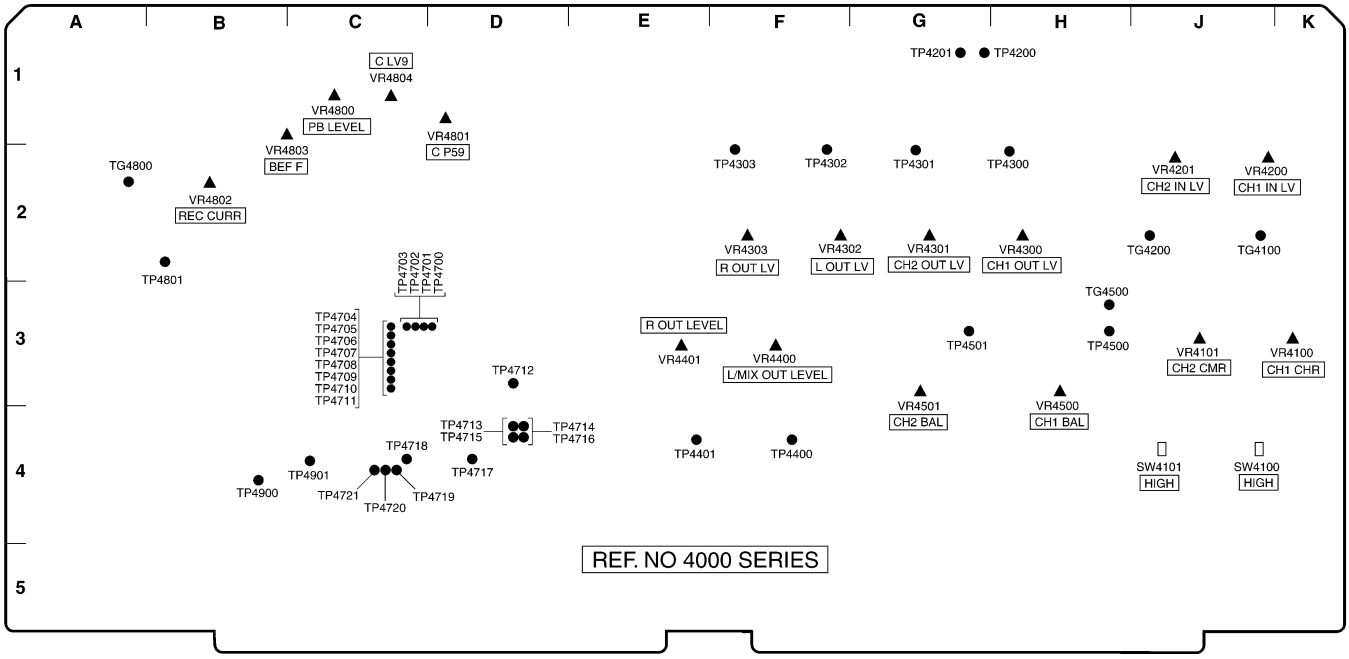
6-6. CUE REC/PB Level Adjustment

BOARD	AUDIO (F1)
TP	TP4005 [RF/CUE Board] TP4006 (GND) [RF/CUE Board] AUDIO OUT (CH1)
ADJ.	SERVICE MENU VR802 (REC CURR)
TAPE	Blank Tape
INPUT	AUDIO IN CH1,2 (1KHz 0dBu Sinewave)
MODE	SELF-REC / PLAY
M. EQ	Oscilloscope, Monitor TV Audio Analyzer, VTVM
SPEC.	0dBu ± 1.0dB

1. Open the SET UP MENU by pressing the "MENU" button.
2. Select the "**716 REC CUE**" item and set it to the CH1. After that press the "SET" button.
3. Supply a 1kHz, 0dBu sinewave signal into the AUDIO IN (Both CH1 and CH2) and record the input signal for few minutes.
4. Playback the just recorded portions and confirms that the AUDIO OUT (CH1) is in the specification.
5. If it is not, slightly adjust VR802 and then repeat step 3 to 5 until it is in the specification.

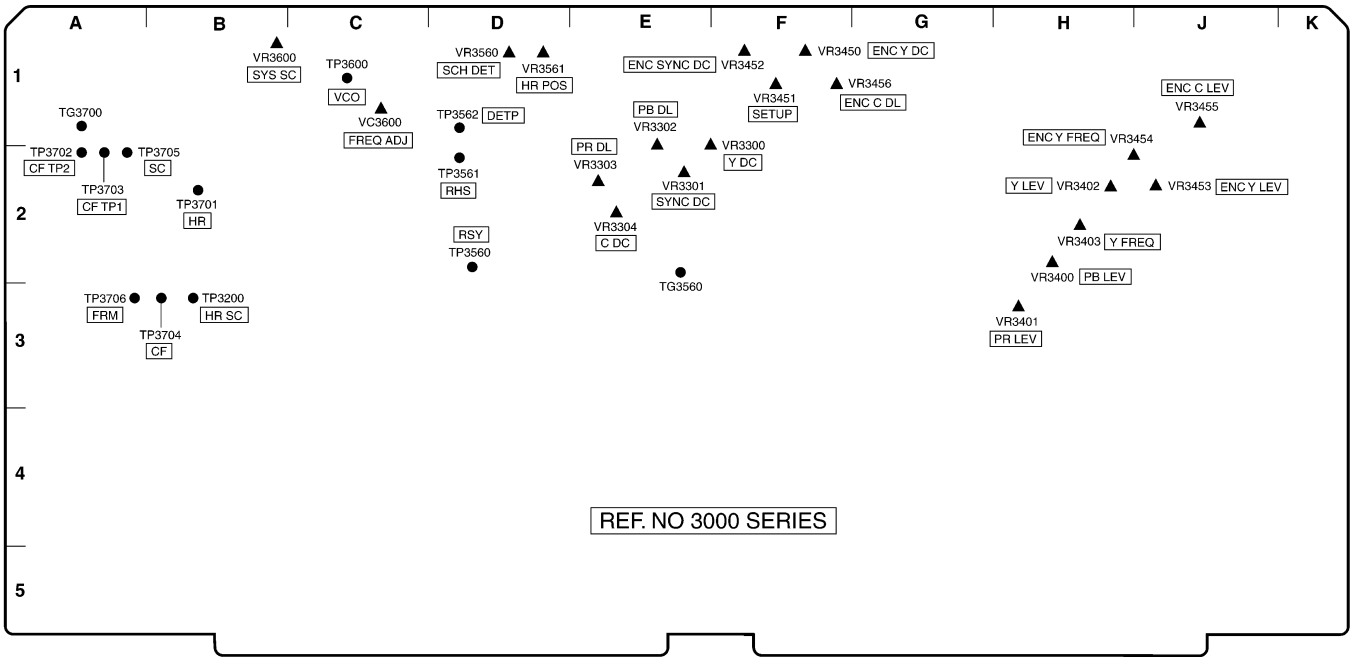
7. TP, VR, SW Location

F1 AUDIO P.C.BOARD (VEP84374A)



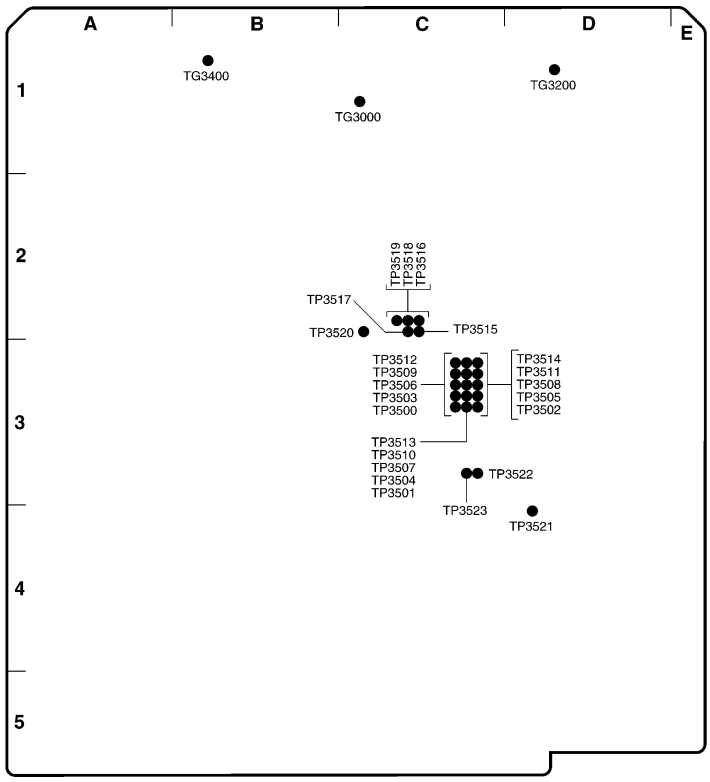
COMPONENT SIDE

F2 V OUT P.C.BOARD (VEP83557B)



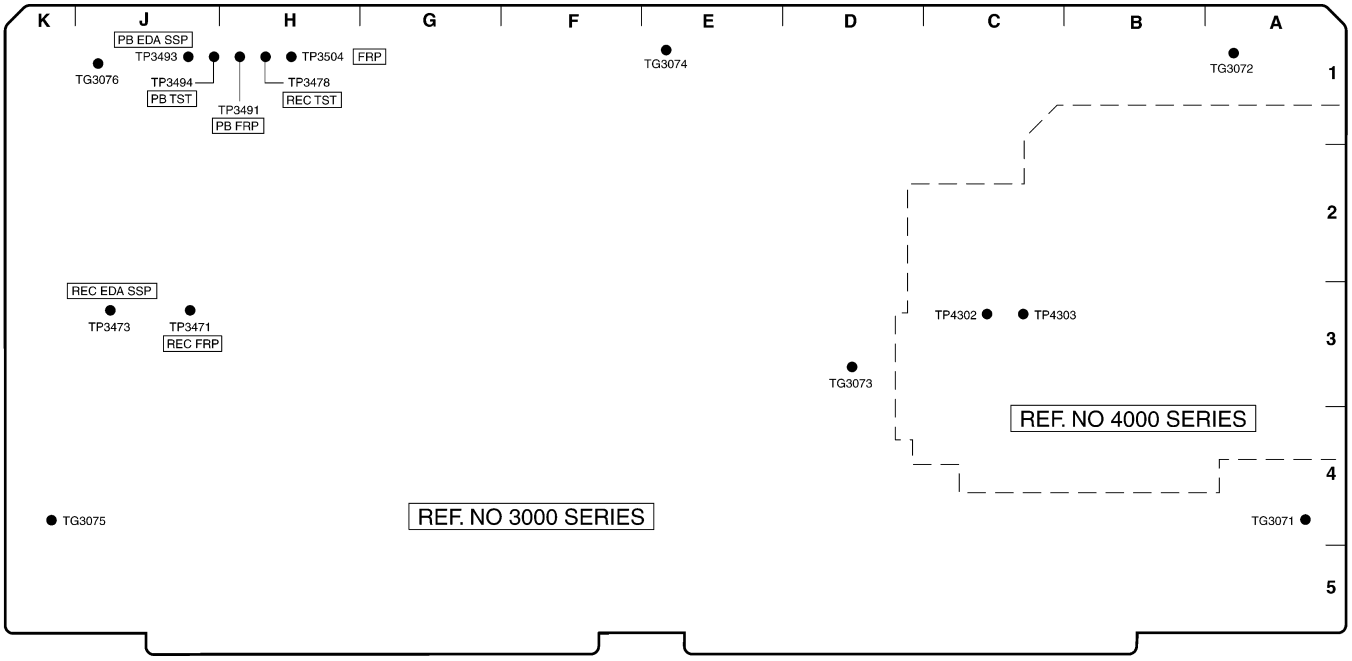
COMPONENT SIDE

F3A SDI P.C.BOARD (VEP83558A) (AJ-YA455P)



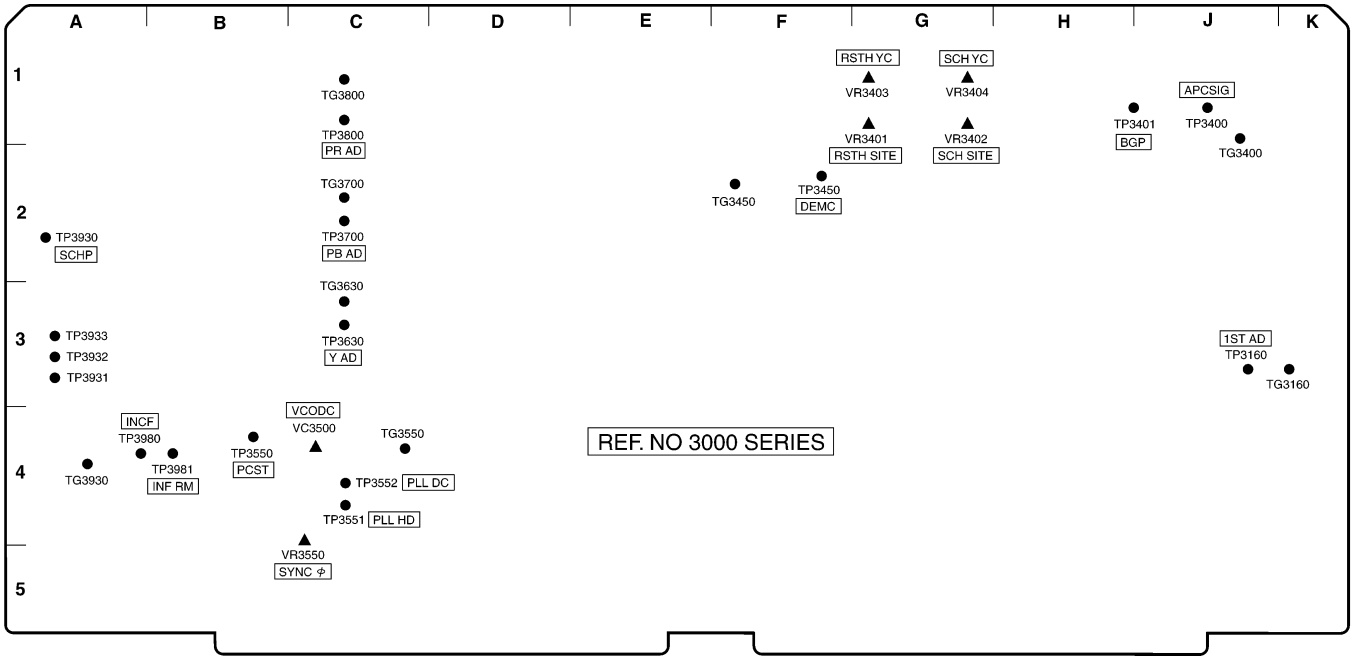
COMPONENT SIDE

F4 D PROC P.C.BOARD (VEP83554B)



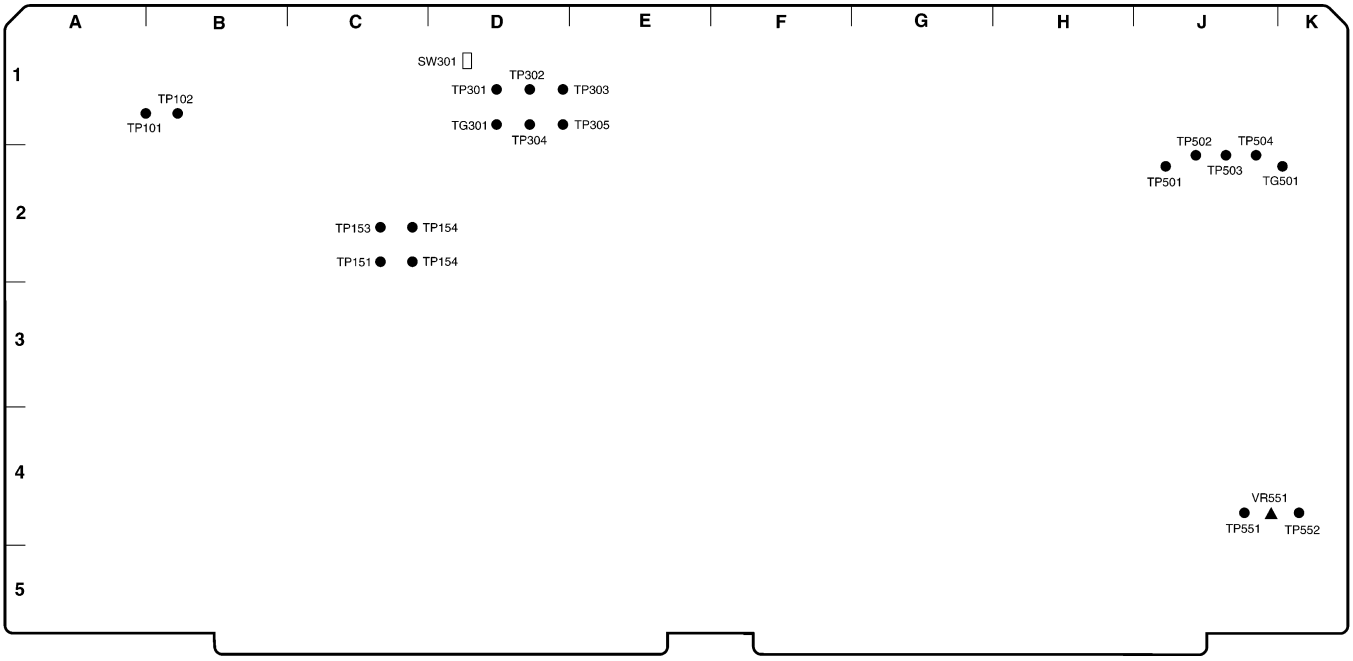
FOIL SIDE

F5 V IN P.C.BOARD (VEP83553B)



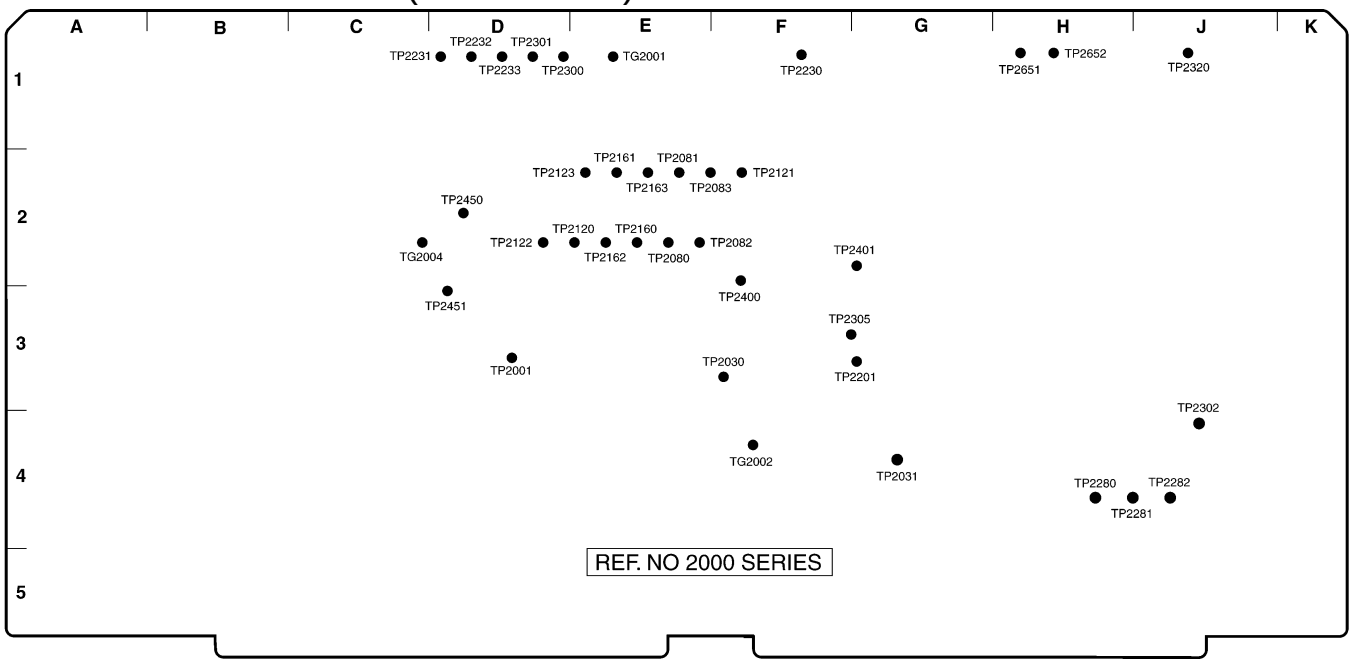
COMPONENT SIDE

F6 SYSCON P.C.BOARD (VEP86314B)



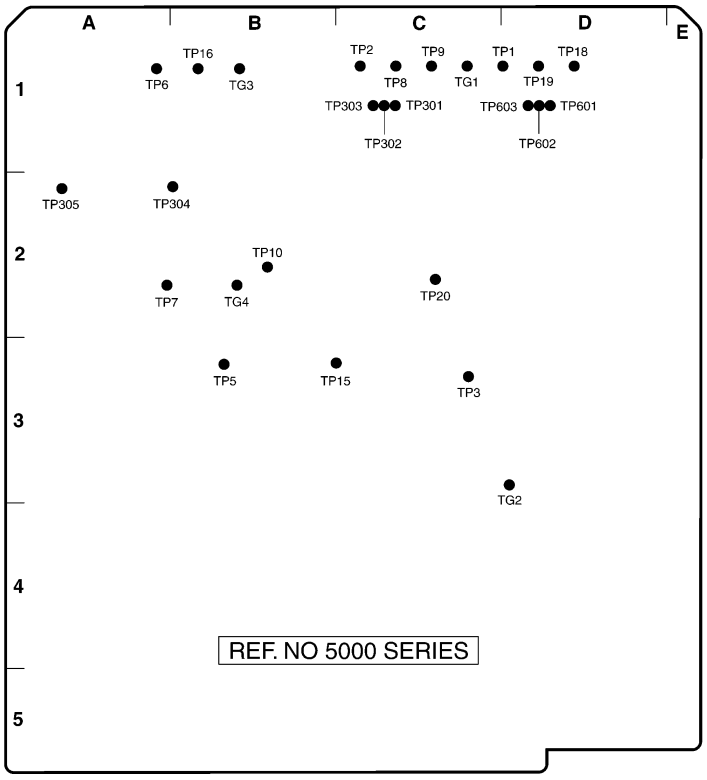
COMPONENT SIDE

F7 SERVO P.C.BOARD (VEP82238B)



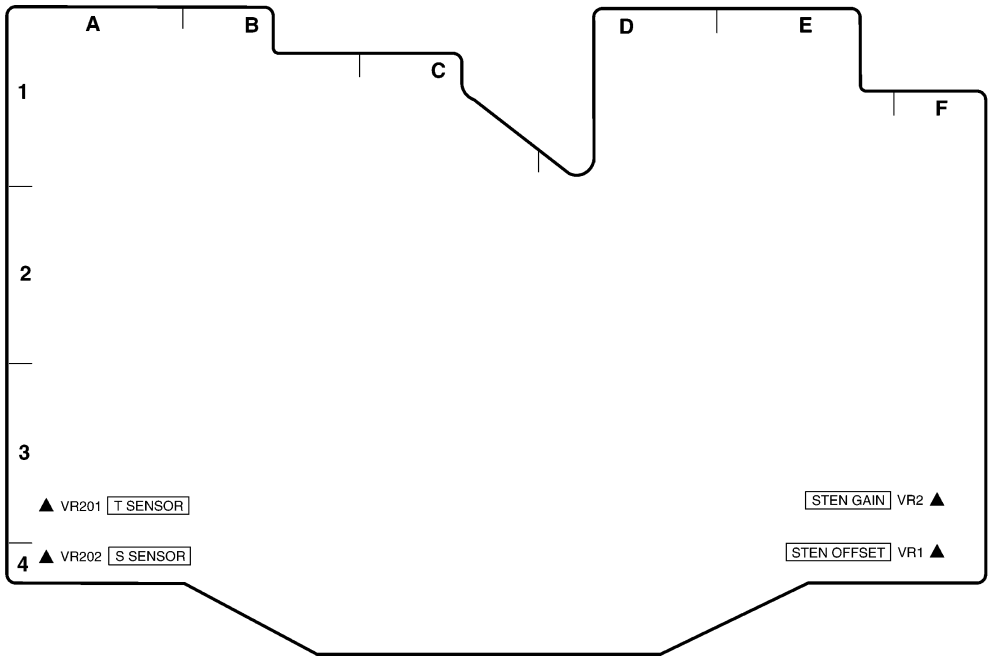
COMPONENT SIDE

F8 RF EQ P.C.BOARD (VEP85196A)



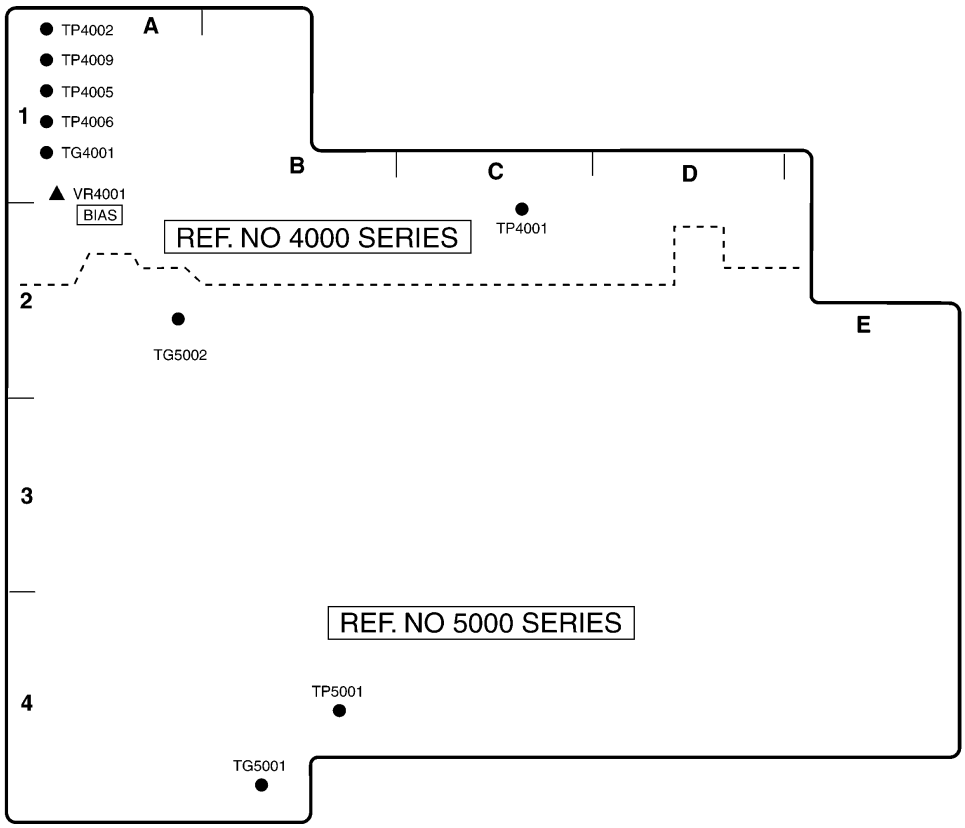
COMPONENT SIDE

MECHA IF P.C.BOARD (VEP82239A)



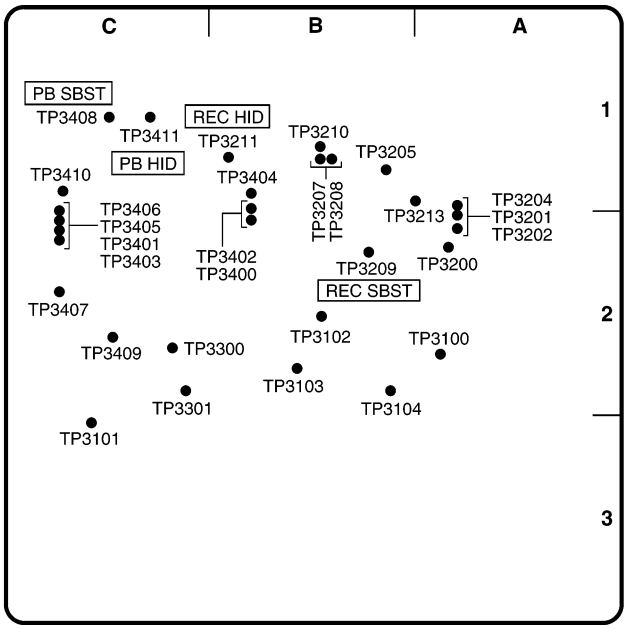
COMPONENT SIDE

RF CUE P.C.BOARD (VEP85197A)



COMPONENT SIDE

CSP SUB P.C.BOARD (VEP83555A)



FOIL SIDE

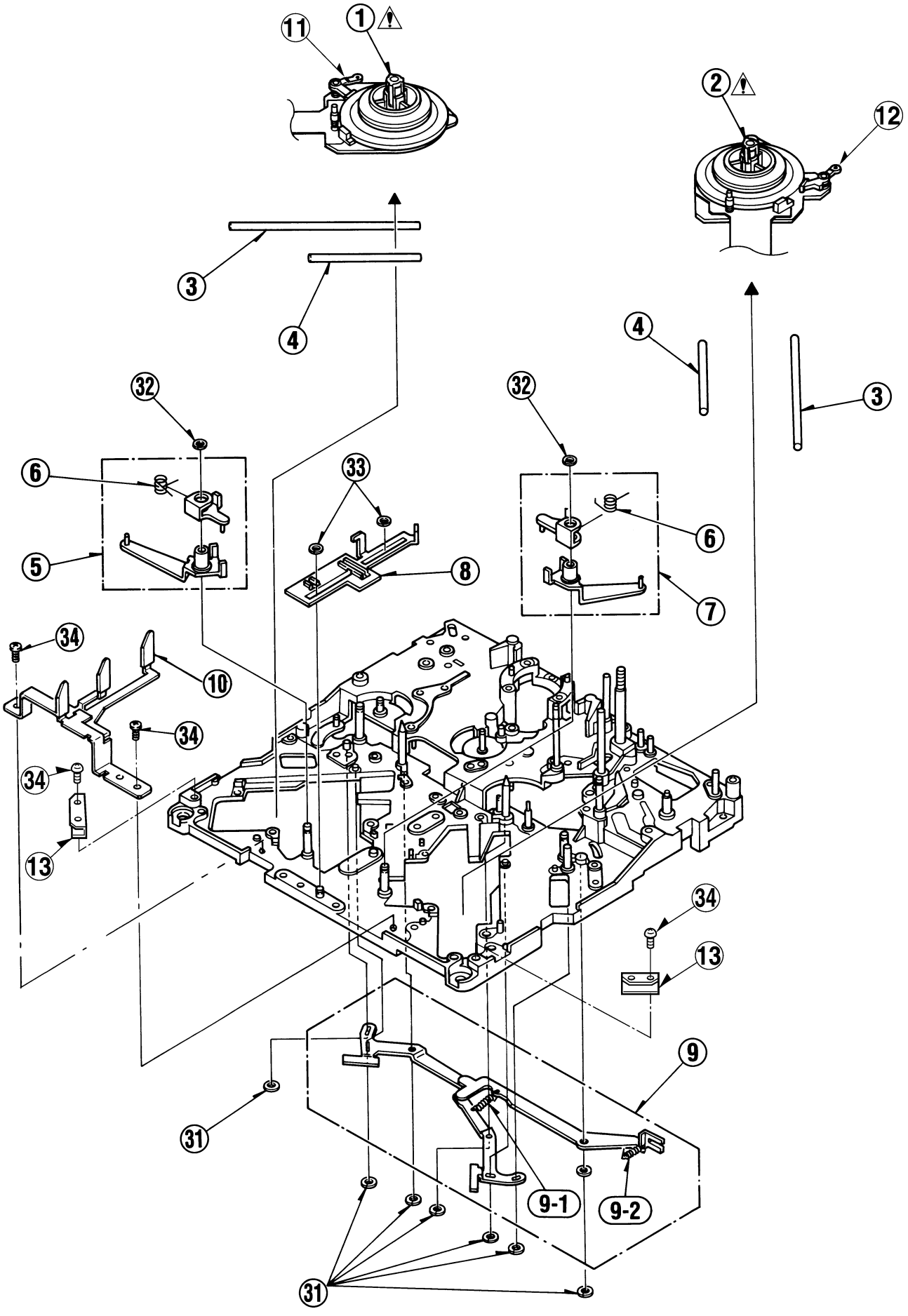
SERVICING FIXTURES & TOOLS

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VFK1145A	BACK TENSION METER	1	
2	VFK1149A	POST DRIVER	1	
3	VFK71A	DIAL TORQUE GAUGE	1	
4	VFK1191A	DIAL TORQUE GAUGE	1	
5	VFK1152	GORQUE GAUGE ADAPTOR	1	
6	VFK0357	ECCENTRIC SCREWDRIVER	1	(1.5MM)
7	VFK1154	POST HIGHT TOOL	1	
8	VFK1153	MECH NEWTRAL PLATE	1	
9	VFK1155	NEWTRAL POSITION TOOL	1	(SILVER)
10	VFK1156	NEWTRAL POSITION TOOL	1	(BLACK)
11	VFK1208	NEWTRAL POSITION TOOL	1	(BLACK WITH HOLE)
12	VFK1150	NUT DRIVER (5.2MM)	1	
13	VFK1151	NUT DRIVER (2.5MM)	1	
14	VFK1188A	DIAL TENSION GAUGE	1	
15	VFK0948A	CHECK LIGHT	1	
16	VFK0749	FROIRAL GREASE	1	(FOR PLASTIC PART)
17	M0R265	MORLYTONE GREASE	1	(FOR METAL PART)
18	VFK1146	PHILIPS DRIVER	1	
19	VFK1147	SCREW DRIVER	1	
20	VFK1148	HEX DRIVER (1.5MM)	1	
21	VFK1178	HEX DRIVER (0.89MM)	1	
22	VFK1179	HEX DRIVER (0.71MM)	1	
23	VFK1190	HEX WRENCH (1.5MM)	1	
24	VFK1209A	TORQUE DRIVER	1	
25	VFK1375	POST AXIS DRIVER	1	
26	VFK1300	A/D BOARD (DAQ-12,QUATECH)	1	
27	VFM3680KM	ALIGNMENT TAPE (NO.1)	1	FOR NTSC (NO.1)
27	VFM3680KL	DVCPRO ALIGNMENT TAPE	1	FOR NTSC (NO.1)
28	VFM3681KM	ALIGNMENT TAPE (NO.2)	1	FOR NTSC (NO.2)
28	VFM3681KL	DVCPRO ALIGNMENT TAPE	1	FOR NTSC (NO.2)
29	VFM3682KM	ALIGNMENT TAPE (NO.3)	1	FOR NTSC (NO.3)
29	VFM3682KL	DVCPRO ALIGNMENT TAPE	1	FOR NTSC (NO.3)
30	VFM3110EDS	DV ALIGNMENT TAPE (COLOR BAR)	1	FOR NTSC (COLOR BAR)
31	VFM3100EDS	DV ALIGNMENT TAPE (LISTA)	1	(LISTA)
32	AJ-CL12MP	CLIEANING TAPE	1	
33	VFK1423	TAPE BEG/END DET CASSETTE	1	(M)
34	VFK1192	F EXTENSION BOARD	1	
35	VFK1496	EXTENDER BOARD	1	
36	VFK1481C	LISTA SOFTWARE	1	
37	VFK1186	LISTA CABLE	1	
38	VFK1503	SERVO VERSION UP SOFTWARE	1	
39	VFK1590	C PLD WRITER	1	
40	VFK1304A	FLASH ROM VERSION UP TOOL	1	
41	VFK0906	OIL	1	
42	VZZ0095	CLEANING CLOTH	1	
43	----	EE CLEANER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

MECHANICAL CHASSIS ASSEMBLY (1)

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.



MECHANICAL CHASSIS ASSEMBLY (1)

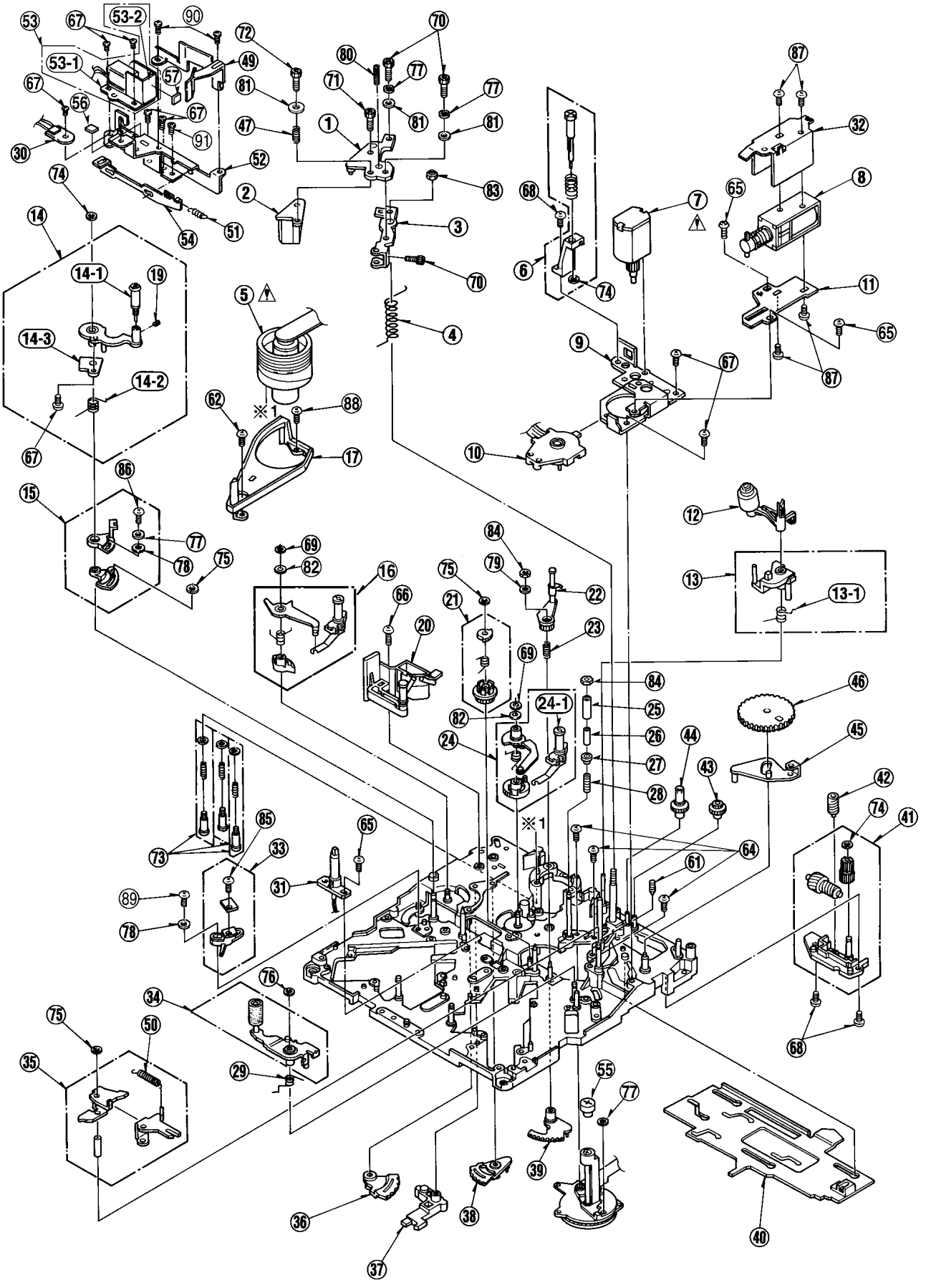
Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
⚠ 1	VEM0686	S REEL MOTOR A ASS'Y	1	(M)
⚠ 2	VEM0687	T REEL MOTOR A ASS'Y	1	(M)
3	VMS5923	REEL OUTER RAIL	2	
4	VMS5924	REEL INNER RAIL	2	
5	VXL2589	S BASE DRIVE ARM ASS'Y	1	
6	VMB2944	CHARGE SPRING	2	
7	VXL2590	T BASE DRIVE ARM ASS'Y	1	
8	VXA5625	SLIDE ROD ASS'Y	1	
9	VXL2597	M STOPPER DRIVE ARM ASS'Y	1	
9-1	VMB2955	M STOPPER SPRING (1)	1	
9-2	VMB3017	M STOPPER SPRING (2)	1	
10	VXA6174	L-M BRAKE RELEASE ASS'Y	1	
11	VXZ0439	S BRAKE ARM ASS'Y	1	
12	VXZ0440	T BRAKE ARM ASS'Y	1	
13	VMZ2603	REEL FLEX COVER	2	
31	VMX1061	WASHER	7	
32	VMX1079	CUT WASHER	2	
33	VMX0967	CUT WASHER	2	
34	XQN2+CF3	SCREW	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

MECHANICAL CHASSIS ASSEMBLY (2)

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.



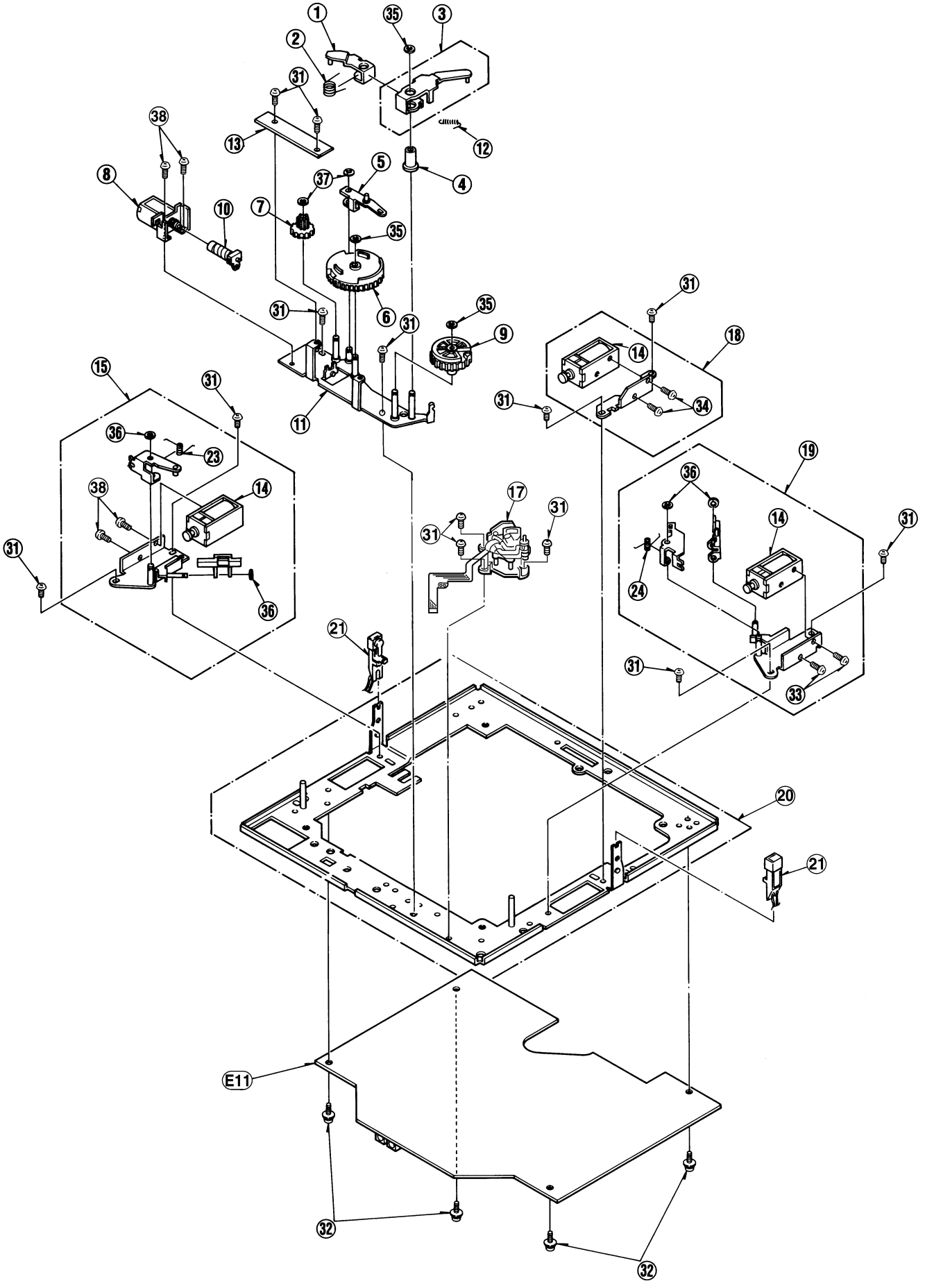
MECHANICAL CHASSIS ASSEMBLY (2)

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXA5554	A/C HEAD BASE (1) ASS'Y	1	
2	VED0419	A/C HEAD	1	(M)
3	VXA6067	A/C HEAD BASE (2) ASS'Y	1	
4	VMB2935	A/C HEAD HIGHT SPRING	1	
⚠ 5	VEG1498	CYLINDER UNIT	1	
6	VXA5715C	SHAFT HOLDER ASS'	1	OR VXA5715
⚠ 7	VEM0645C	LOADING MOTOR (1) ASS'Y	1	(M)OR VEM0645
8	VSJ0227	PINCH SOLENOID	1	(M)
9	VXA5584C	MOTOR ANGLE ASS'Y	1	OR VXA5584
10	VES0937	MODE SW ASS'Y	1	
11	VMA0A35	PINCH SOLENOID BASE	1	
12	VXL3027C	CLEANING ARM ASS'Y	1	OR VXL3027
13	VXL2870C	T2 ARM ASS'Y	1	OR VXL2870
13-1	VMB3304	T2 ARM SPRING	1	
14	VXL2831	TENSION ARM A ASS'Y	1	(M)
14-1	VXP1761	TENSION ROLLER	1	
14-2	VMB3220	TENSION LEG SPRING	1	
14-3	VXA6173	MAGNET HOLDER ASS'Y	1	
15	VXA5791C	TENSION REG. SPRING HOOK	1	OR VXA5791
16	VXL2709	S1 LOADING ARM ASS'Y	1	(M)
17	VMD3731	LOADING RAIL	1	
19	VHD0561	HEX SCREW	1	
20	VXA6052	S POST BASE A ASS'Y	1	(M)
21	VXP1683C	T4 CONNECTION GEAR ASS'Y	1	OR VXP1683
22	VXL2772	T4 ARM ASS'Y	1	
23	VMB2950	T4 THRUST SPRING	1	
24	VXL2952	T LOADING ARM ASS'Y	1	
24-1	VXA6378	T1 BOAT ASS'Y	1	(M)
25	VMS5906	T3 UPPER FRANGE	1	
26	VMS5905	T3 SLEEVE	1	
27	VMS5904	T3 LOWER FRANGE	1	
28	VMB2929	T3 SPRING	1	
29	VMB2933	PINCH RELEASE SPRING	1	
30	VEK7927	INSULLATION SENSOR	1	EYHS77Y7
31	VEK8970	LED HOLDER P.C.BOARD	1	
32	VMA9411	PINCH SOLENOID ANGLE	1	
33	VXA5820C	TENSION SENSOR AS'Y	1	OR VXA5820
34	VXL2835C	PINCH ARM ASS'Y	1	(M)OR VXL2835
35	VXL2588C	PINCH GUIDE ARM ASS'Y	1	OR VXL2588
36	VXA5570C	T SECTOR GEAR ASS'Y	1	OR VXA5570
37	VXL2838C	TENSION REG. GUIDE ARM	1	OR VXL2838
38	VXA5567C	S SECTOR GEAR ASS'Y	1	OR VXL5567
39	VXA5564C	T4 SECTOR GEAR ASS'Y	1	OR VXA5564
40	VXA6348	MAIN ROD ASS'Y	1	
41	VXA5627C	THRUST SHAFT HOLDER ASS'Y	1	OR VXA5627
42	VDG1166	MOTOR WARM GEAR	1	
43	VDG1443	EMARGENCY GEAR A	1	
44	VDG1444	MOTOR EMARGENCY GEAR B	1	
45	VXL2889C	MAIN CAM ARM ASS'Y	1	OR VXL2889
46	VDG1168	MAIN CAM GEAR	1	(M)
47	VMB2937	A/C HEAD ADJUST SPRING	1	
49	VMD3475	T1 GUIDE ASS'Y	1	
50	VMB2934	SPRING	1	
51	VMB3051	CLEANER RETURN SPRING	1	
52	VXA6077	CLEANER BASE 1 ASS'Y	1	
53	VXA6078	CLEANER SOLENOID ASS'Y	1	
53-1	VSJ0226	CLEANER SOLENOID	1	(M)
53-2	VMA9877	CLEANER SOLENOID BASE	1	
54	VMM0429	CLEANER INTERLOCK	1	
55	VXQ0556	THRUST SCREW ASS'Y	1	(M)
56	VMT0871	SILENCER A	1	
57	VMT0872	SILENCER B	1	
61	VHD0356	SCREW	1	
62	XQN2+A3	SCREW	1	
64	XQN2+A35FZ	SCREW	3	
65	XQN2+AM2	SCREW	3	
66	XQN2+AM4	SCREW	1	
67	XQN2+CF3	SCREW	8	
68	XQN2+CF4	SCREW	3	
69	XUC12FP	E-RING	2	
70	XVE2B4FZ	HEX SCREW	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
71	XVE2B6FP	HEX SCREW	1	
72	XVE2B12FP	HEX SCREW	1	
73	VXQ0439	SCREW	3	
74	VMX0967	CUT WASHER	3	
75	VMX1061	WASHER	3	
76	VMX1079	CUT WASHER	1	
77	XWA2B	WASHER	4	
78	XWE2	WASHER	2	
79	XWE16VW	WASHER	1	
80	XXE2A6FP	HEX SCREW	1	
81	XWG2	WASHER	3	
82	XWGV15Z32G	WASHER	2	
83	VHD0045	NYLON NUT	1	
84	VHN0312	NUT	2	
85	XQN2+AQ3.5FZ	SCREW	1	
86	XQN2+AJ5	SCREW	1	
87	XQN2+A1.5	SCREW	4	
88	XQN2+A4	SCREW	1	
89	XQN2+C4	SCREW	1	
90	XYN2+J5	SCREW	2	
91	XYN2+K4	SCREW	1	
*	VXY1631Z1	MECHA CHASSIS ASS'Y	1	

SUB CHASSIS ASSEMBLY

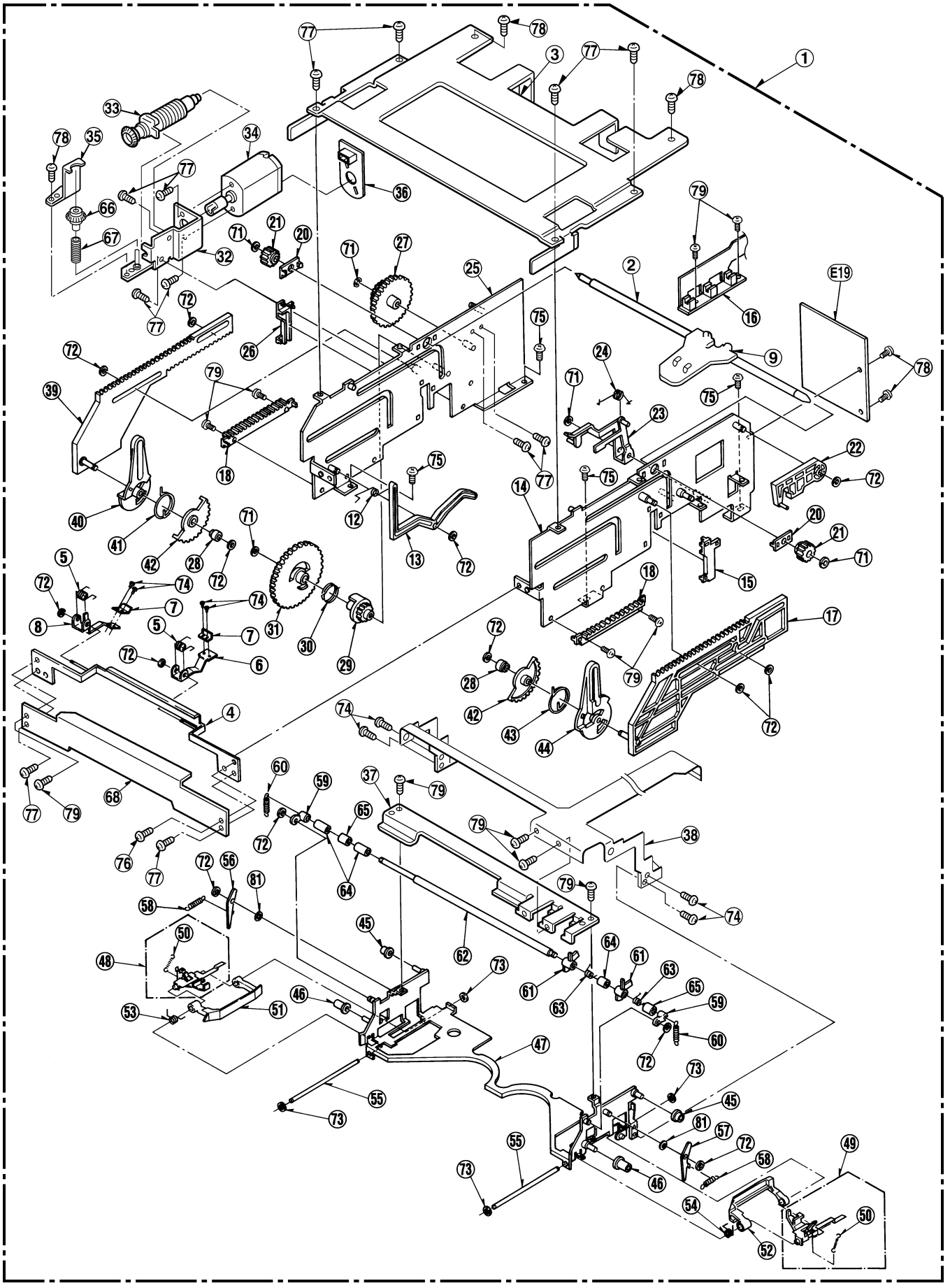


SUB CHASSIS ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXL2656	MIC DRIVE ARM (A) ASS'Y	1	
2	VMB3018	MIC DRIVE SPRING	1	
3	VXL2657	MIC DRIVE ARM (B) ASS'Y	1	
4	VDB1429	MIC DRIVE ARM BOSS	1	
5	VXL2613	REEL DRIVE ARM ASS'Y	1	
6	VDG1192	REEL DRIVE CAM GEAR	1	
7	VDG1193	REEL DRIVE WORM WHEEL	1	
8	VEM0585	REEL DRIVE MOTOR ASS'Y	1	(M)
9	VDG1211	MIC GENEVA GEAR	1	
10	VXP1698	REEL DRIVE WORM ASS'Y	1	
11	VXA5628	MOTOR BASE ASS'Y	1	
12	VMB3019	MIC DRIVE RETURN SPRING	1	
13	VEK7726	REEL SENSOR P.C.BOARD	1	
14	VSJ0216	SOLENOID	3	(M)
15	VXA5575	S-BRAKE SOLENOID BASE ASS'Y	1	
17	VXA7014	DISTINCTION SW ASS'Y	1	(M)
18	VXA5579C	M STOPPER SOLENOID ASS'Y	1	OR VXA5579
19	VXA5887	T-BRAKE SOLENOID BASE ASS'Y	1	
20	VXK1336	SUB CHASSIS	1	
21	VEK7692	SENSOR HOLDER ASS'Y	2	
22	VMS6193	T BRAKE RELEASE ARM SHAFT	1	
23	VMB2957	S BRAKE SPRING	1	
24	VMB2987	T BRAKE SPRING	1	
31	XQN2+CF3	SCREW	13	
32	XYN26+K6	SCREW	4	
33	XQN2+A1.5	SCREW	2	
34	XQN2+A2	SCREW	2	
35	VMX1079	CUT WASHER	3	
36	VMX0967	CUT WASHER	4	
37	VMX1548	CUT WASHER	2	
38	XQN2+A1.5	SCREW	4	
E11	VEP82239A	MECHA I/F P.C.BOARD	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

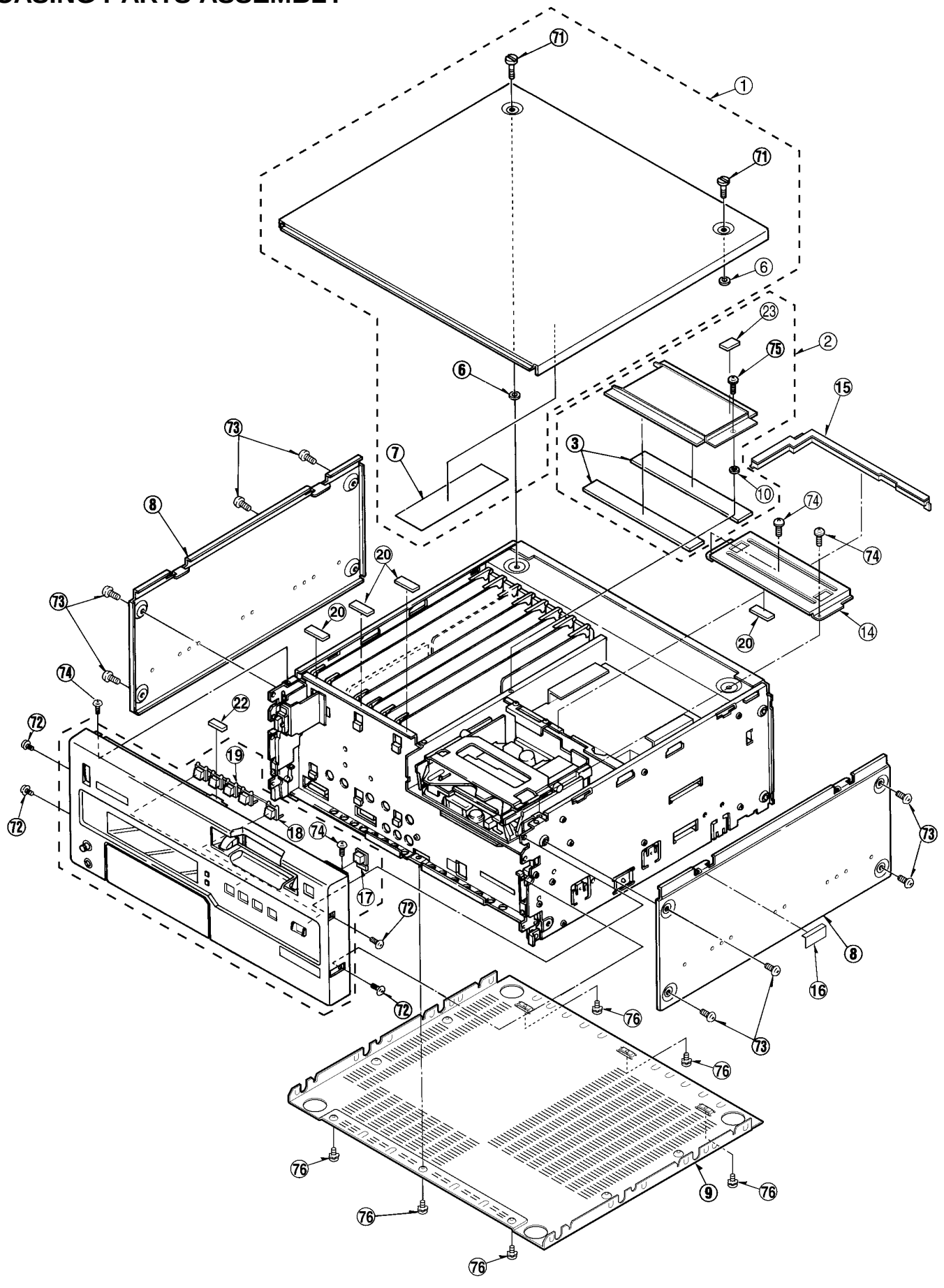
CASSETTE COMPARTMENT ASSEMBLY



CASSETTE COMPARTMENT ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXA6593	CASSETTE COMPARTMENT	1	(M)
2	VMS5865	MAIN SHAFT	1	
3	VMA9849	TOP PLATE	1	
4	VXA6572	FRONT GUIDE 1 ASS'Y	1	
5	VMB3075	M GUIDE SPRING	2	
6	VML3191	M GUIDE RIGHT LEVER	1	
7	VML3192	M FRONT GUIDE	2	
8	VML3190	M GUIDE LEFT LEVER	1	
9	VML3397	CASSETTE PROTECT PLATE	1	
12	VMB2926	SPRING	1	
13	VML2A50	BLINDER PANEL OPENER	1	
14	VXA6074	R SIDE PLATE 1 ASS'Y	1	
15	VML3282	SUB RAIL (R)	1	
16	VEK7695	SIDE FLEXIBLE	1	
17	VXA5766	MAIN RACK R ASS'Y	1	
18	VDG1156	WIPER RACK	2	
20	VDB1395	MAIN SHAFT ANGLE	2	
21	VDG1412	INTERLOCK GEAR	2	
22	VML3193	OPENER DRIVE ARM	1	
23	VXL2692	OPENER ANGLE ASS'Y	1	
24	VMB2979	SPRING	1	
25	VXA6072	SIDE PLATE L 1 ASS'Y	1	
26	VML3281	SUB RAIL (L)	1	
27	VDG1413	INTERAMEDIATE GEAR	1	
28	VDP1643	WIPER ROLLER	2	
29	VDG1414	CLUTCH GEAR	1	
30	VMB2980	CLUTCH SPRING	1	
31	VDG1236	WORM WHEEL	1	
32	VXA5848	MOTOR ANGLE (A) ASS'Y	1	
33	VXP1797	E.E SLOT IN WORM ASS'Y	1	
34	VXA5597	MOTOR ASS'Y	1	(M)
35	VMA9673	EMARGENCY ANGLE	1	
36	VEK7793	MOTOR P.C.BOARD	1	
37	VMA9668	HOLDER PLATE	1	
38	VEK7715	HOLDER FLEXIBLE ASS'Y	1	
39	VXA6075	MAIN RACK (L) ASS'Y	1	
40	VML3485	WIPER ARM (R)	1	
41	VMB3391	WIPER ARM (L)	1	
42	VDG1163	WIPER GEAR	2	
43	VMB3390	WIPER SPRING (L)	1	
44	VML3484	WIPER SPRING (R)	1	
45	VDP1642	CASSETTE GUIDE ROLLER (2)	2	
46	VDP1641	CASSETTE GUIDE ROLLER (1)	2	
47	VXA5757	CASSETTE HOLDER 1 ASS'Y	1	
48	VXA5758	ROD L	1	
49	VXA5759	ROD R	1	
50	VMB3064	SLIDE SPRING	2	
51	VML3249	SIDE GUIDE L	1	
52	VML3250	SIDE GUIDE R	1	
53	VMB3061	SLIDE GUIDE SPRING L	1	
54	VMB3062	SLIDE GUIDE SPRING R	1	
55	VMS6108	KICK OFF ROD SHAFT	2	
56	VML2A54	KICK OFF ARM L	1	
57	VML2A55	KICK OFF ARM R	1	
58	VMB2928	KICK OFF SPRING	2	
59	VML2A53	CASSETTE HOLDER ARM	2	
60	VMB2927	CASSETTE HOLDER SPRING	2	
61	VMX2833	M-L DETECT ROLLER	2	
62	VMS5882	CASSETTE HOLDER SHAFT	1	
63	VMB3253	M-L DETECT SPRING	2	
64	VMX2559	CASSETTE PRESSURE ROLLER(2)	3	
65	VMX2524	CASSETTE PRESSURE ROLLER(1)	2	
66	VDG1246	EMARGENCY GEAR	1	
67	VMB3109	EMARGENCY SPRING	1	
68	VMZ2661	FRONT GUIDE COVER	1	
71	VMX0653	CUT WASHER	5	
72	VMX0967	CUT WASHER	14	
73	VMX1061	WASHER	4	
74	XQN16+A2	SCREW	8	
75	XQN2+CF3	SCREW	4	
76	XQN2+A2	SCREW	1	
77	XYN2+C4	SCREW	12	
78	XQN2+A3	SCREW	5	
79	LMHD16064	SCREW	11	
81	XWGV2Z5G	WASHER	2	
E19	VEP80856A	CARRIGE P.C.BOARD	1	

CASING PARTS ASSEMBLY

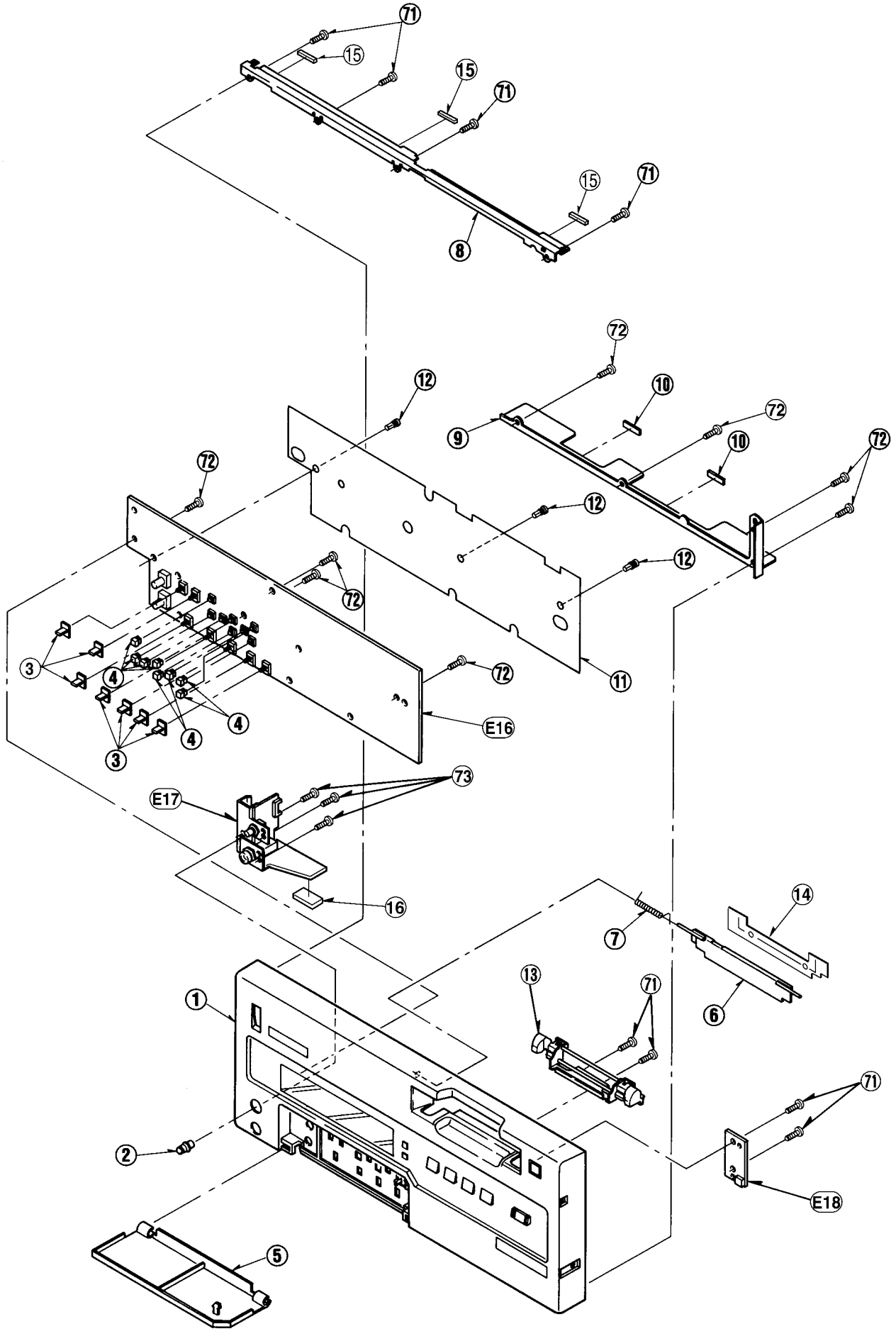


CASING PARTS ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VYP7626	TOP PANEL ASS'Y	1	
2	VXA7031	P.C.B. PLATE L ASS'Y	1	
3	VMT1222	P.C.B. RUBBER CUSHION L	2	
6	VMX2510	SPACER	2	
7	VMZ2325	TOP PANEL BARRIER	1	
8	VGM1699	SIDE PANEL	2	
9	VKU0546	BOTTOM PLATE	1	
10	VMX1558	NYLON WASHER	1	
14	VMP5265	CARRIAGE SUPPORT METAL	1	
15	VXA6591	MECHA DUST PROOF (U)ASS'Y	1	
16	VGF0816	INSULATION SHEET	1	
17	VGU8108	EJECT BUTTON	1	
18	VGU7423	OPERATION BUTTON B	1	
19	VGU7422	OPERATION BUTTON A	1	
20	VMT0493	CUSHION	4	
22	VMT0847	GASKET	1	
23	VMT0797	GASKET	1	
71	VHD0775	SCREW	2	
72	XSB3+8FZ	SCREW	4	
73	XSB4+8FC	SCREW	8	
74	XTV3+6F	SCREW	4	
75	XYN3+K8	SCREW	1	
76	XYE3+EF6	SCREW	6	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

FRONT PANEL ASSEMBLY



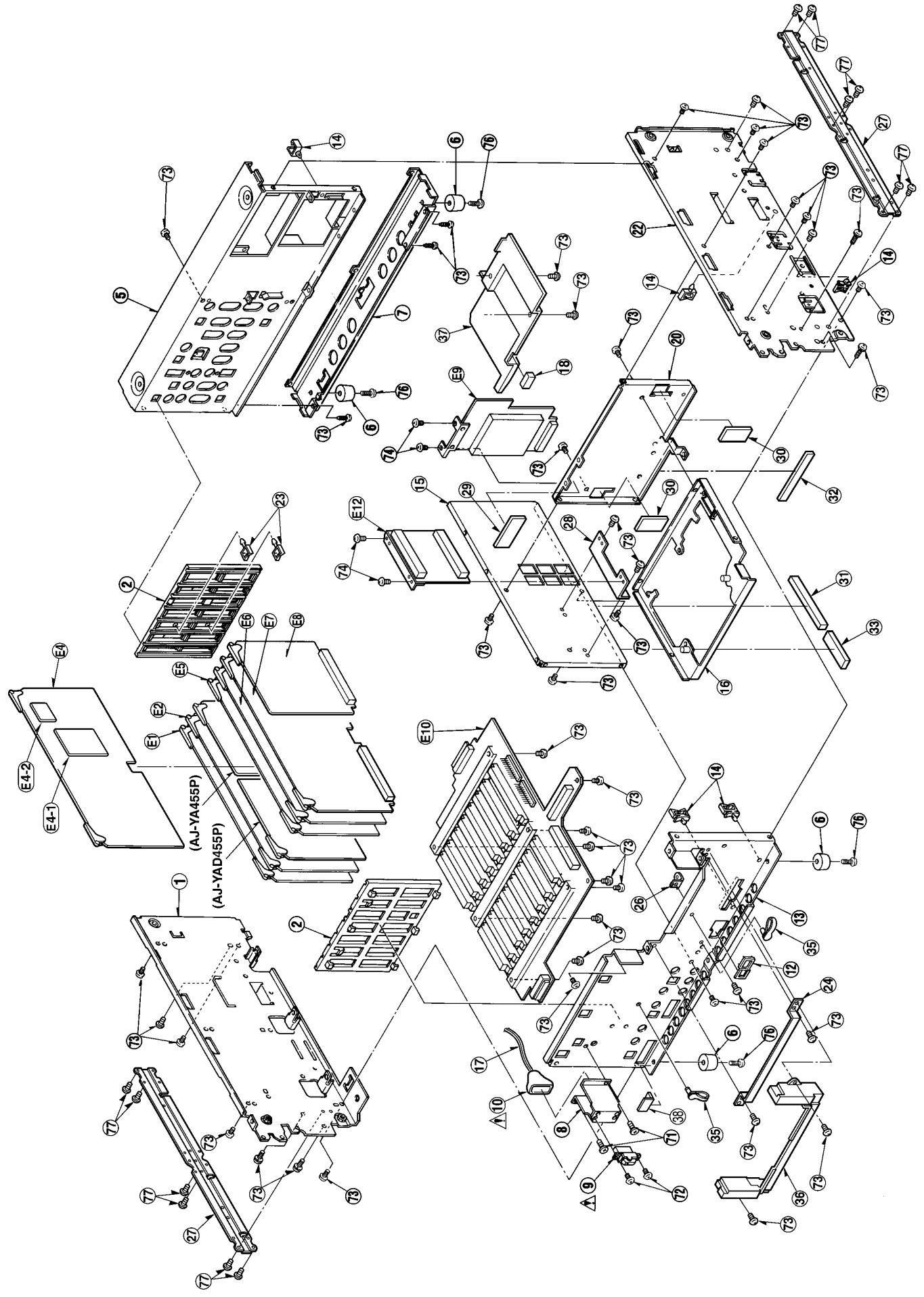
FRONT PANEL ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VYP8126	FRONT PANEL (1) ASS'Y	1	
2	VGU5334	LEVER VR KNOB	1	
3	VGU6516	SLIDE SW KNOB (L)	7	
4	VGU7459	TACT SW KNOB	8	
5	VKF3100	FRONT WINDOW	1	
6	VKF2785	BLINDER PANEL	1	
7	VMB2923	BLINDER SPRING	1	
8	VMP4864	UPPER FRONT PANEL ANGLE	1	
9	VMP6810	PANEL SUPPORT ANGLE	1	
10	VMT0800	GASKET	2	
11	VMZ3143	INSULATION SHEET	1	
12	VJF0108	SPACER	3	
13	VYQ2301	CASSETTE GUIDE ASS'Y	1	
14	VGF0836	PANEL SHEET	1	
15	VMT0847	GASKET	3	
16	VMT0493	CUSHION	1	
71	XTV3+8G	SCREW	8	
72	XTN4+10G	SCREW	8	
73	XTV3+6GFZ	SCREW	3	
E16	VEP86315A	FRONT P.C.BOARD	1	
E17	VEP80C15A	HEAD PHONE P.C.BOARD	1	
E18	VEP80C16A	EJECT P.C.BOARD	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

CHASSIS FRAME ASSEMBLY

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.



CHASSIS FRAME ASSEMBLY

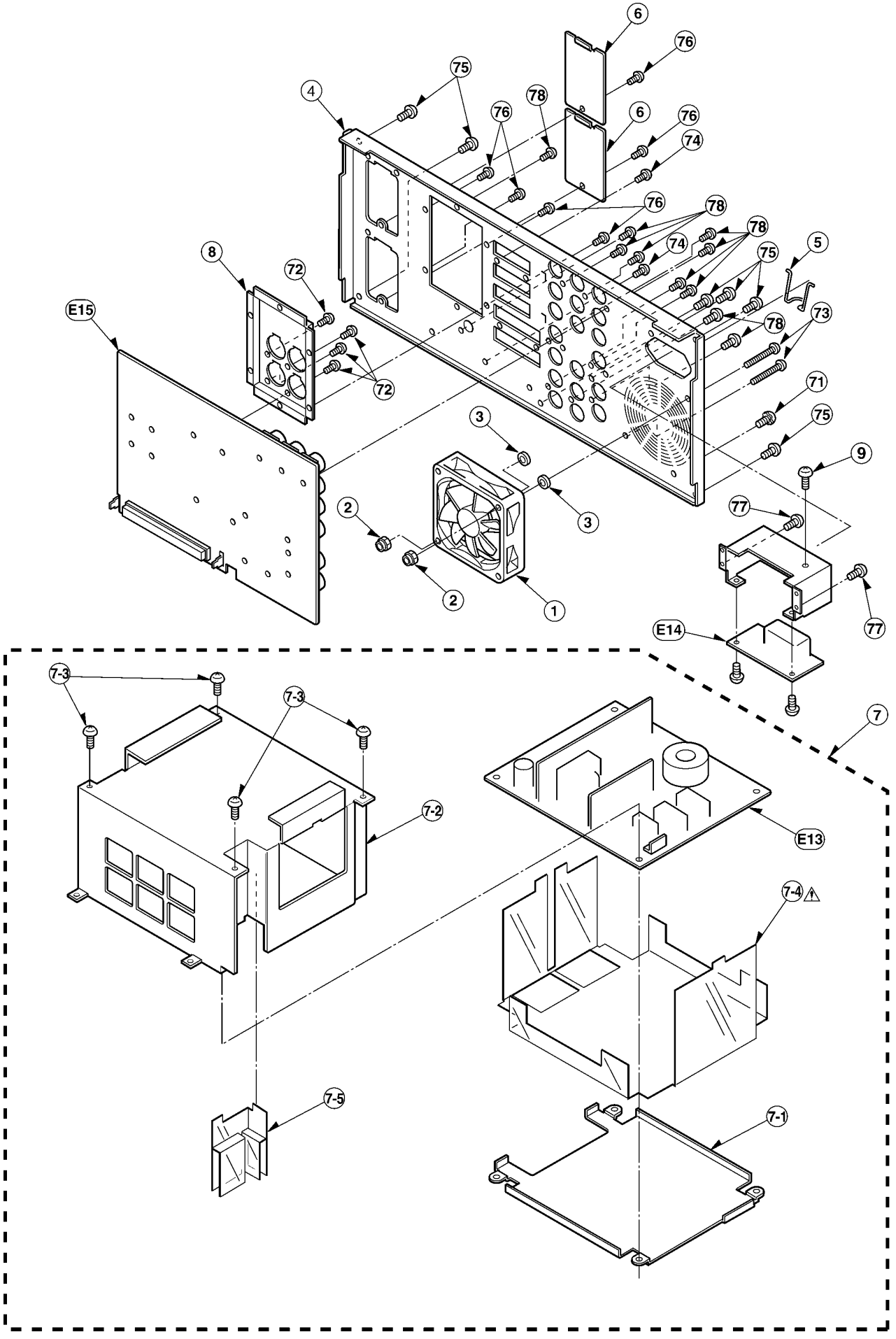
Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VMP6832	SIDE FRAME (L)	1	
2	VGQ4011	P.C.BOARD GUIDE RAIL A	2	
5	VMP6802	REAR FRAME	1	
6	VKA0117	PLASTIC FOOT	4	
7	VMP6020	BOTTOM FRAME	1	
8	VMP4881	SW BRACKET	1	
⚠ 9	EST15367S	POWER SWITCH	1	
⚠ 10	VMZ0580	SW COVER	1	
12	VJF1259	EDGE HOLDER	1	
13	VMP6803	FRONT FRAME	1	
14	VJF0384	CLAMPER	5	
15	VMP6800	CENTER FRAME	1	
16	VXA7029	MECHA FRAME ASS'Y	1	
⚠ 17	VEE0N56	AC CABLE	1	
18	VMT0968	DUST PROOF CUHION (D)	1	
20	VMP6801	MIDDLE FRAME	1	
22	VMP6833	SIDE FRAME (R)	1	
23	VJF0384	CLAMPER	2	
24	VMP6126	MECHA DUST PROOF (F)ASS'Y	1	
26	VMP5298	SAUB P.C.B. HOLDER ANGLE	1	
27	VMP6248	RACK MOUNT	2	
28	VMP6807	MECHA EXT FIX ANGLE	1	
29	VMT1014	DUST PROOF CUSHION (A)	1	
30	VMT1219	DUST PROOF CUSHION (A)	2	
31	VMT1044	DUST PROOF CUSHION (L)	1	
32	VMT1232	DUST PROOF CUSHION (A)	1	
33	VMT1043	CUSHION	1	
35	VJF0469	CLAMPER	2	
36	VXA6625	MECHA DUST PROOF (F)ASS'Y	1	
37	VXA7032	MECHA SHIELD (L) ASS'Y	1	
38	VMT0779	GASKET	1	
71	VHD5013	SCREW	2	
72	XTN3+6F	SCREW	2	
73	XTV3+6F	SCREW	44	
74	XTV3+6FFR	SCREW	4	
76	XYNV3+K12S	SCREW	4	
77	XTV4+6F	SCREW	12	
E1	VEP84374A	F1 AUDIO P.C.BOARD	1	
E2	VEP83557B	V OUT P.C.BOARD0	1	
E4	VEP83554B	D PROC P.C.BOARD0	1	
E4-1	VEP83555A	CSP SUB P.C.BOARD	1	FOR VEP83554B
E4-2	VSI3675B	DV UCOM P.C.BOARD	1	FOR VEP83554B
E5	VEP83553B	V IN P.C.BOARD0	1	
E6	VEP86314B	SYSCON P.C.BOARD0	1	
E7	VEP82238B	SERVO P.C.BOARD0	1	
E8	VEP85196A	F8 RF EQ P.C.BOARD	1	
E9	VEP85197A	RF CUE P.C.BOARD	1	
E10	VEP80C14A	MOTHER P.C.BOARD	1	
E12	VEP82240A	MECHA I/F 2 P.C.BOARD	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

REAR PANEL ASSEMBLY

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.



REAR PANEL ASSEMBLY

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

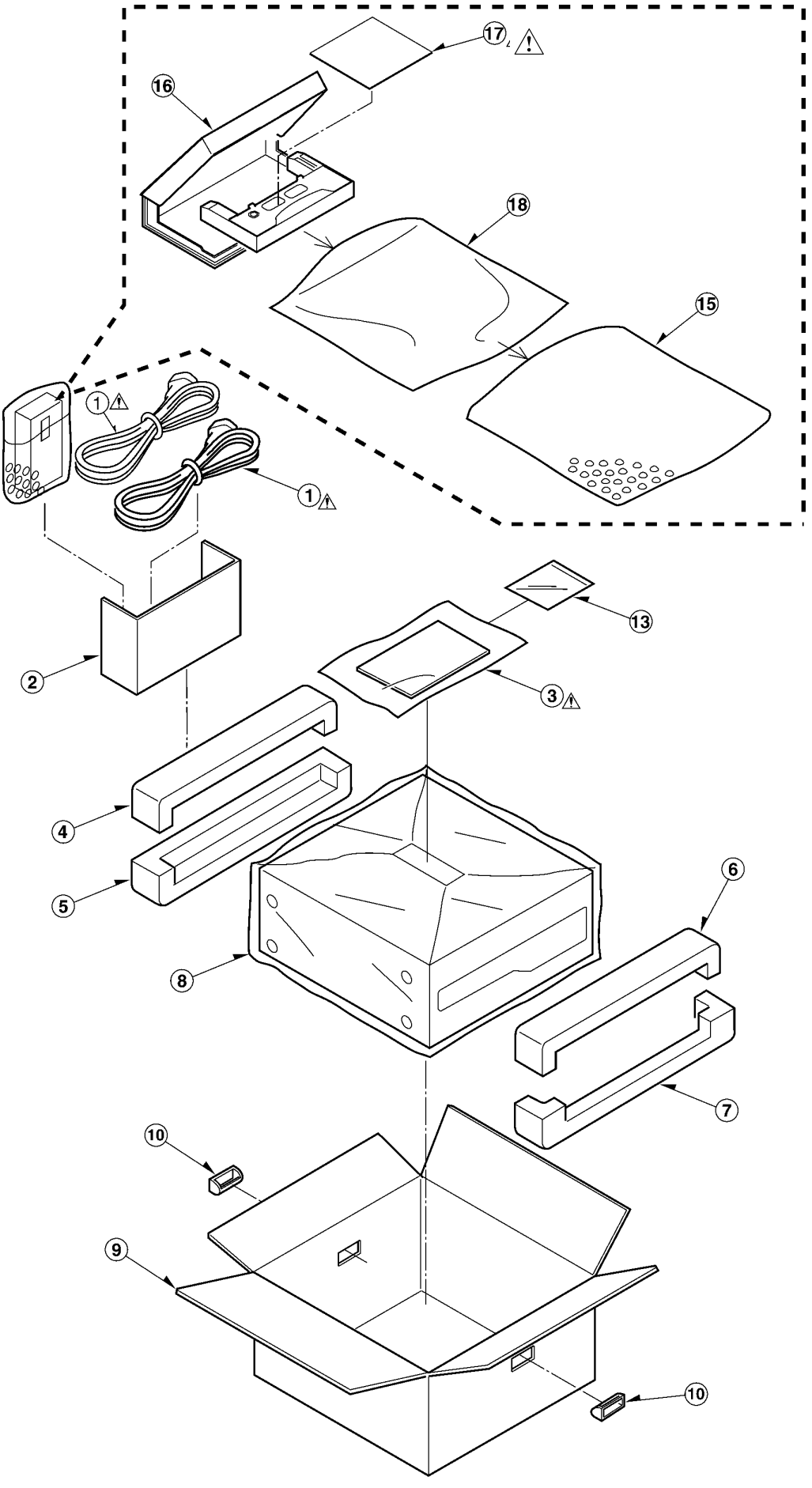
Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VRF0190	FAN MOTOR	1	L6FALEFH0007
2	VHN0063	NYLON NUT	2	
3	VMX0835	SPACER	2	
⚠ 4	VJH1205	JACK PANEL	1	
5	VML2903	AC CORD HOOK	1	
6	VMP5032	OPTION PANEL	2	
7	VEK9369	POWER ASS'Y	1	
7-1	VSC5223	POWER CASE (LOWER)	1	
7-2	VSC5224	POWER CASE (UPPER)	1	
7-3	XYN3+F8	SCREW	4	
⚠ 7-4	VMZ3147	POWER BARRIER	1	
⚠ 7-5	VMZ3148	POWER BARRIER B	1	
8	VMP6811	XLR HOLDER ANGLE	1	
9	XYN4+E6VW	SCREW	1	
71	XYE4+EF8	SCREW	1	
72	XSN26+6FZ	SCREW	4	
73	XSN4+35FC	SCREW	2	
74	XTN26+6FFZ	SCREW	5	
75	XTV3+6F	SCREW	6	
76	XTV3+6FFZ	SCREW	6	
77	XTV3+6FFR	SCREW	6	
78	XTV3+10GFZ	SCREW	10	
E13	VEP81221B	POWER 1 P.C.BOARD0	1	
E14	VEP81222A	POWER 2 P.C.BOARD	1	
E15	VEP80C13A	AV JACK P.C.BOARD	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

PACKING PARTS ASSEMBLY

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

AJ-CS455P



PACKING PARTS ASSEMBLY

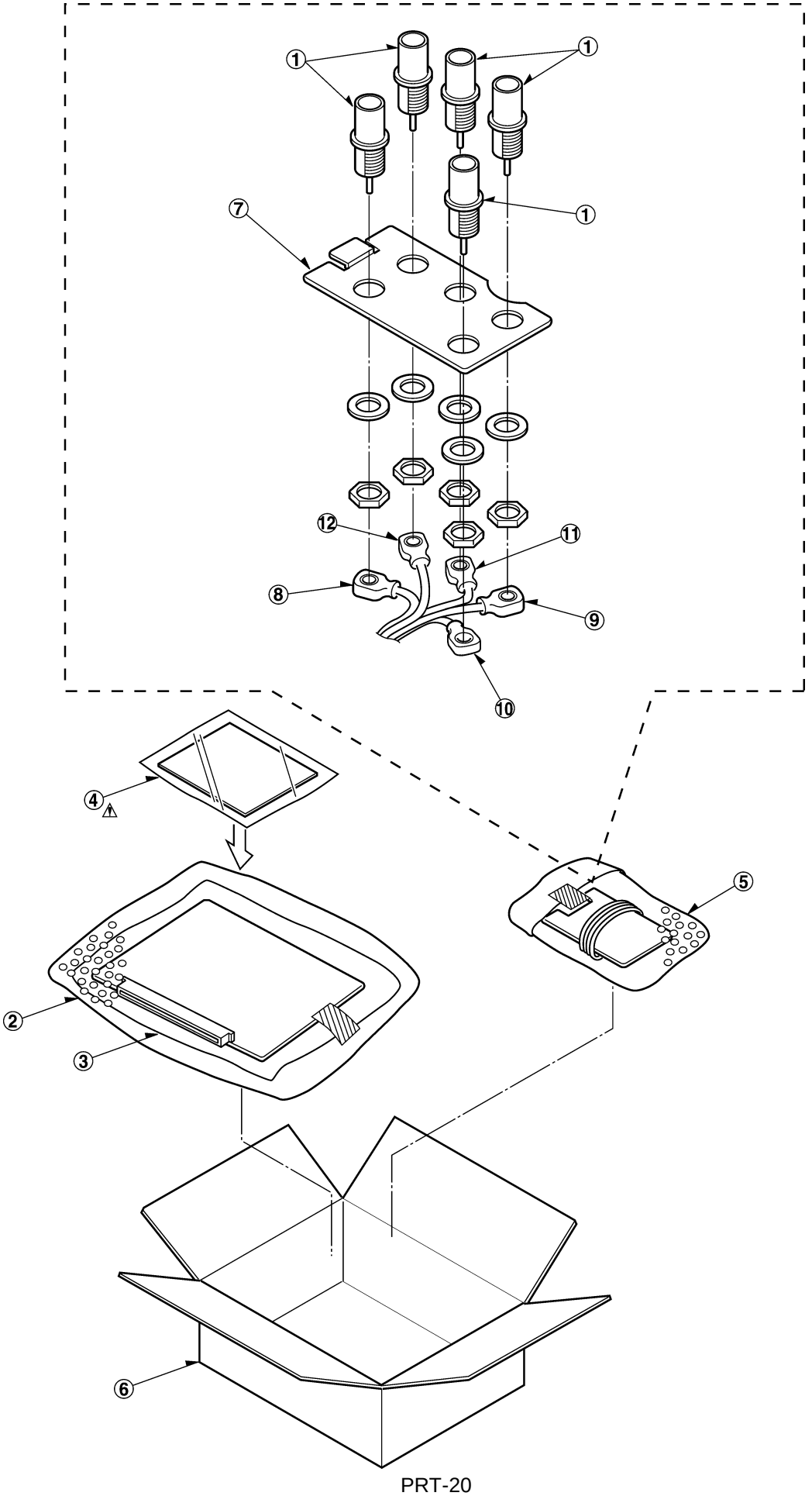
Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
⚠ 1	VJA0774	POWER CORD (B)	1	FOR AJ-D455E
⚠ 1	VJA0775	POWER CORD (E)	1	FOR AJ-D455E
⚠ 1	VJA1147	POWER CORD	1	FOR AJ-D455MC
2	VPN4305	ACCESSORY PAD	1	
⚠ 3	VQT9349	OPERATING INSTRUCTIONS	1	FOR AJ-D455E
⚠ 3	VQT9350	OPERATING INSTRUCTIONS	1	FOR AJ-D455MC
4	VPN4302	CUSHION UL	1	
5	VPN4304	CUSHION LL	1	
6	VPN4606	CUSHION UR	1	
7	VPN4607	CUSHION LR	1	
8	VPF0673	POLYETHYLENE BAG	1	
9	VPG0L05	PACKING CASE	1	FOR AJ-D455E
9	VPG0L06	PACKING CASE	1	FOR AJ-D455MC
10	VPF0149	HANDLE COVER	2	
13	VXF0173	EMARGENCY EJECT ASS'Y	1	
15	VPF0679	AIR BAG	1	
16	VPK1856	M CASSETTE SOFT CASE	1	
⚠ 17	VQT9175	OPERATING INSTRUCTIONS	1	
18	VPF0887	POLYETHYLENE BAG	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

PACKING PARTS ASSEMBLY (AJ-YA455P)

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.



PACKING PARTS ASSEMBLY (AJ-YA455P)

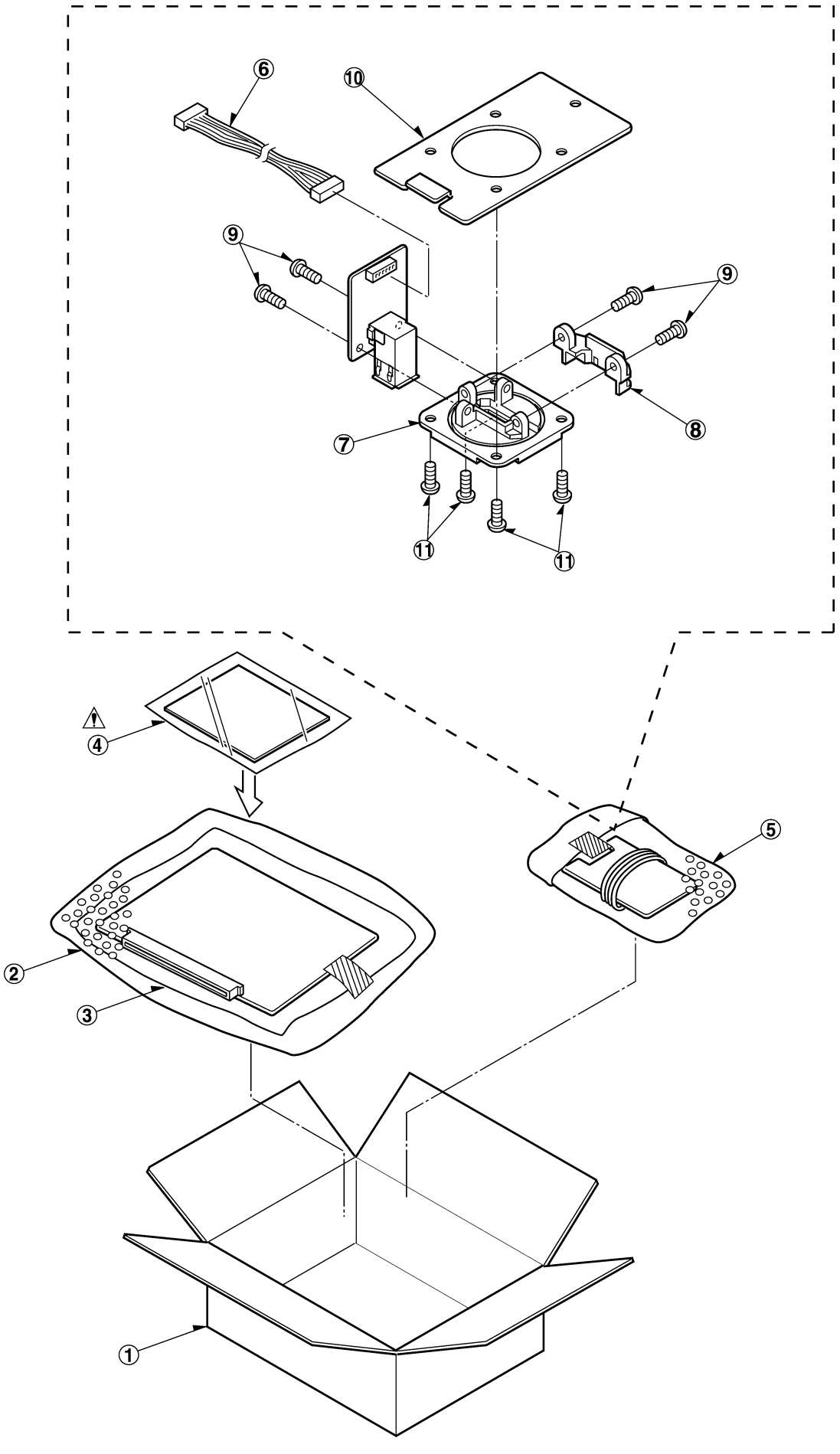
Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VJS3462	CONNECTOR (FEMALE)	5	K1SMBDBA0002
2	VPF0678	AIR CAP BAG	1	
3	VPF0359	POLYETHYLENE BAG	1	
⚠ 4	VQT9173	OPERATING INSTRUCTIONS	1	
5	VPF0679	AIR CAP BAG	1	
6	VPG6296	PACKING CASE	1	
7	VMP5900	JACK PANEL	1	
8	VEE9651	SR IN	1	K1RZBBB00003
9	VEE9653	SR OUT 3	1	K1RZBBB00006
10	VEE9652	SR THROUGH	1	K1RZBBB00008
11	VEE9654	SR OUT 2	1	K1RZBBB00009
12	VEE9655	SR OUT 1	1	K1RZBBB00007

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

PACKING PARTS ASSEMBLY (AJ-YAD455P)

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.



PACKING PARTS ASSEMBLY (AJ-YAD455P)

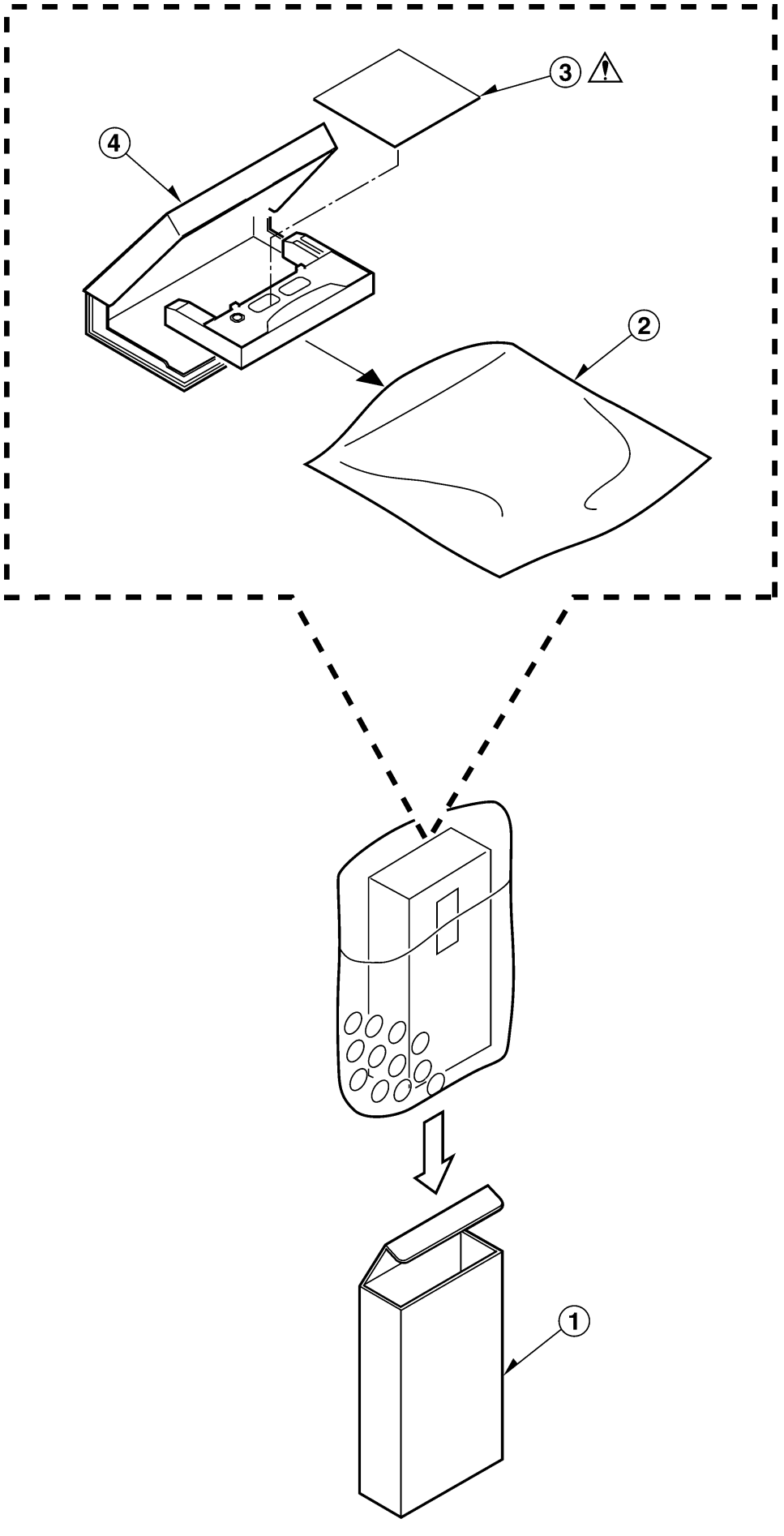
Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VPG6296	PACKING CASE	1	
2	VPF0678	AIR CAP BAG	1	
3	VPF0359	POLYETHYLENE BAG	1	
⚠ 4	VQT9174	OPERATIONG INSTRUCTIONS	1	
5	VPF0679	AIR CAP BAG	1	
6	VEE0N57	CABLE	1	
7	VJF1344	CONNECTOR HOLDER (1)	1	
8	VJF1345	CONNECTOR HOLDER (2)	1	
9	XYN2+J6	SCREW	4	
10	VMP6821	JACK PANEL	1	
11	XTN3+6FFY	SCREW	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

PACKING PARTS ASSEMBLY (AJ-CS455P)

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.



PACKING PARTS ASSEMBLY (AJ-CS455P)

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VPG8753	PACKING CASE	1	
2	VPF0887	POLYETHYLENE BAG	1	
⚠ 3	VQT9175	OPERATING INSTRUCTIONS	1	
4	VPK1856	M CASSETTE SOFT CASE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

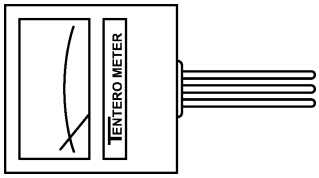
1. SERVICING FIXTURES & TOOLS

NO	NEW	PART NO.	FIXTURE & TOOL NAME	REMARKS
1		VFK1145A	Back Tension Meter	
2		VFK1149A	Post Driver	
3		VFK71A	Dial Torque Gauge (1.5 cN·m)	150 g
4		VFK1191A	Dial Torque Gauge (0.45 cN·m)	45 g
5		VFK1152	Dial Torque Gauge Adapter	
6		VFK0357	Eccentric Screwdriver (1.5 mm)	
7		VFK1154	Post Height Fixture	
8		VFK1153	Mech. Neutral Plate	
9		VFK1155	REV Position Tool (silver)	
10		VFK1156	PLAY Position Tool (black)	
11		VFK1208	Neutral Position Tool (black with hole)	
12		VFK1150	Nut Driver (5.5 mm)	
13		VFK1151	Nut Driver (2.5 mm)	
14		VFK1188A	Dial Tension Gauge	
15		VFK0948A	Check Light	
16		VFK0749	Froiral Grease (white)	for plastics part
17		MOR265	Morlytone Grease (black)	for metal part
18		VFK1146	Philips Driver (Fine) (00-75)	
19		VFK1147	Philips Driver (Fine) (00-100)	
20		VFK1148	Hex. Driver (1.5 mm)	
21		VFK1178	Hex. Driver (0.89 mm)	
22		VFK1179	Hex. Driver (0.71 mm)	
23		VFK1190	Hex. Wrench	
24		VFK1209A	Torque Driver (4 cN·m-30 cN·m)	0.4 kgf·cm –3 kgf·cm
25		VFK1375	Post Axis Driver (1.5 mm)	
26		VFK1300	A/D Board (DAQ-12 Quatech)	
27		VFM3680KM	DVCPRO Alignment Tape (No.1) for NTSC	or VFM3680KL
28		VFM3681KM	DVCPRO Alignment Tape (No.2) for NTSC	or VFM3681KL
29		VFM3682KM	DVCPRO Alignment Tape (No.3) for NTSC	or VFM3682KL
30		VFM3110EDS	DV Alignment Tape (Color Bars) for NTSC	
31		VFM3100EDS	DV Alignment Tape for LISTA	
32		AJ-CL12MP	Cleaning Tape	SALES Route
33		VFK1423	Tape Beg./End Detection Cassette	
34		VFK1192	F Extender Board	
35		VFK1496	Extender Board	
36		VFK1481B	LISTA Software	
37		VFK1186	LISTA Cable	
38		VFK1503	Servo Version up Software	
39		VFK1590	C PLD Writer	
40		VFK1304A	Flash Memory Version up Tool	
41		VFK0906	Lubrication Oil	
42		VZZ0095	Cleaning Cloth	
		-----	EE Cleaner	Camera/Electrical Appliances mass merchandisers

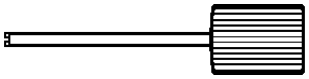
<Information>

DVCPRO MENU DUPLICATOR software (VVCS102A1KIT) is available.
This software is for back-up and/or upload SETUP MENU DATA (SYSTEM & USER1-5) with PC.
If you need to make same setting for plural VTRs, MENU DUPLICATOR is very useful and very easy to make it. And also when you swap the VTR for repair or maintenance, no need to remember setting.

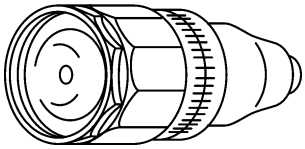
1 **VFK1145A**
Back Tension Meter



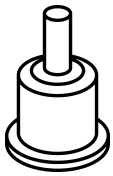
2 **VFK1149A**
Post Driver



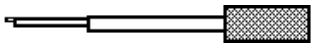
3 **VFK71A**
4 **VFK1191A**
Dial Torque Gauge



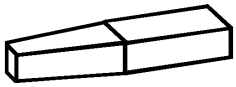
5 **VFK1152**
Dial Torque Gauge Adapter



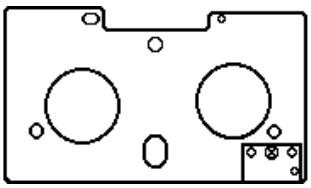
6 **VFK0357**
Eccentric Screwdriver (1.5 mm)



7 **VFK1154**
Post Height Fixture



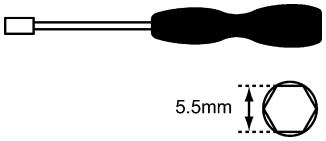
8 **VFK1153**
Mech. Neutral Plate



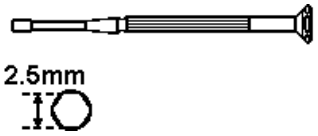
9 **VFK1155** **(REV/Silver)**
10 **VFK1156** **(PLAY/Black)**
11 **VFK1208**
(Neutral/Black with hole)
Position Tool



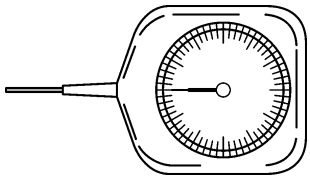
12 **VFK1150**
Nut Driver (5.5 mm)



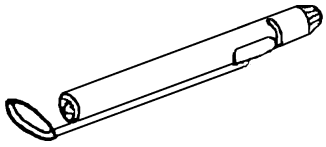
13 **VFK1151**
Nut Driver (2.5 mm)



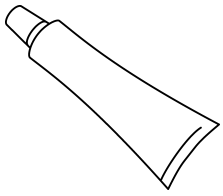
14 **VFK1188A**
Dial Tension Gauge



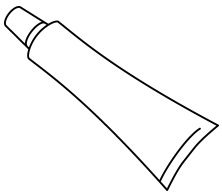
15 **VFK0948A**
Check Light



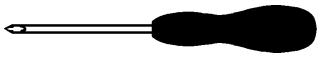
16 **VFK0749**
Froiral Grease (for plastics)



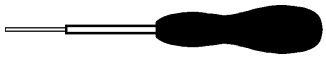
17 **MOR265**
Morlytone Grease (for metal)



18 **VFK1146 (00X75)**
19 **VFK1147 (0X100)**
Philips Driver (Fine)



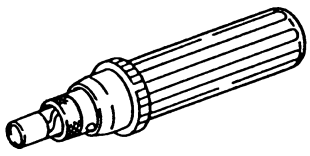
20 **VFK1148 (1.5 mm)**
21 **VFK1178 (0.89 mm)**
22 **VFK1179 (0.71 mm)**
Hex. Driver



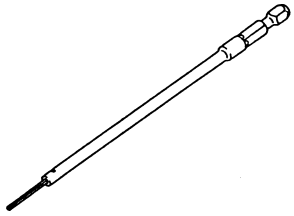
23 **VFK1190 (1.5 mm)**
Hex. Wrench



24 **VFK1209A**
Torque Driver



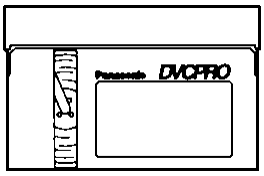
25 **VFK1375**
Post Axis Driver (1.5 mm)



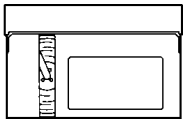
26 **VFK1300**
A/D Board (Quatech DAQ-12)



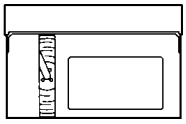
27 **VFM3680KM or L**
28 **VFM3681KM or L**
29 **VFM3682KM or L**
DVCPRO
Alignment Tape



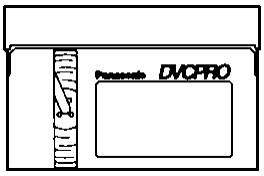
30 **VFM3110EDS**
DV Alignment Tape
(Color Bars) (NTSC)



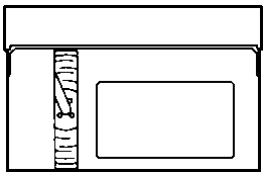
31 **VFM3100EDS**
DV Alignment Tape
(LISTA)



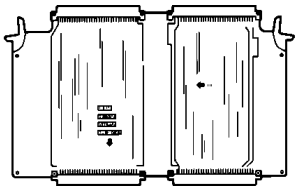
32 **AJ-CL12MP**
Cleaning Tape



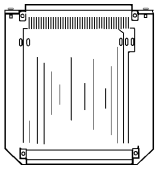
33 **VFK1423**
Tape Beg./End
Detection Cassette



34 **VFK1192**
F Extender Board

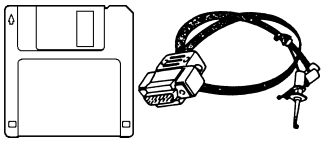


35 **VFK1496**
Extender Board

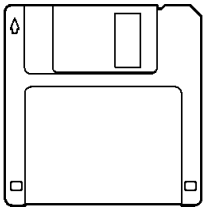


36 **VFK1481B**
LISTA Software

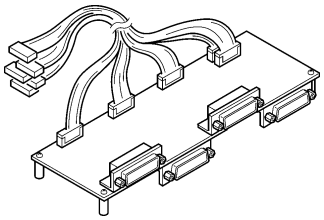
37 **VFK1186**
LISTA Cable



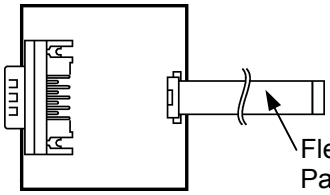
38 **VFK1503**
Servo Version up
software



39 **VFK1590**
C PLD Writer

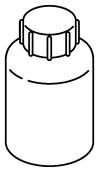


40 **VFK1304A**
Flash Memory Version up Tool
（VFK1304 includes the flexible
cable ”VWJ20E5500L0”）

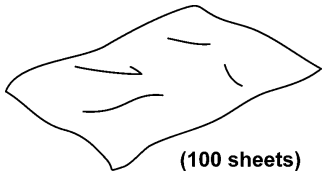


Flexible cable
Part No.: VWJ20E5500L0

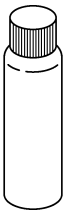
41 **VFK0906**
Lubrication Oil



42 **VZZ0095**
Cleaning Cloth



43 **-----**
EE Cleaner



2. Alignment Tape

2-1. VFM3680KM / L (PAL) (25 M adjustment tape)

TIME	VIDEO		PCM AUDIO		CUE	
(min.)	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color bar 100%	Video level Confirmation	1KHz –18dB	Confirmation of the audio level	1KHz Reference Level	Cue Level Confirmation
10:00	H Sweep	Frequency Response				
14:00	Area Markers	Video start timing			6KHz Reference Level	A/C head Azimuth Adjustment
18:00	Bow tie (500K)	Y/C timing				
22:00	Pulse & bar	Y/C timing			1KHz 300KHz-6KHz	Frequency Response
26:00 30:00	Multi Pulse	Y/C timing	-----	-----	-----	-----

2-2. VFM3681KM / L (PAL) (Manufacturer (LISTA) adjustment tape)

TIME	VIDEO		PCM AUDIO		CUE	
(min.)	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	ITI pattern	Linearity adjustment	-----	-----	-----	-----

2-3. VFM3682KM / L (PAL) (Manufacturer (X-value) adjustment tape)

TIME	VIDEO		PCM AUDIO		CUE	
(min.)	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color bar (75%) (with drop-out track)	X-value adjustment	-----	-----	6KHz 10VU	X-value adjustment

2-4. VFM3110EDS / L (PAL) (DV adjustment tape)

TIME	VIDEO		PCM AUDIO		CUE	
(min.)	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color bar	EQ adjustment	1,102.5KHz		-----	-----

2-5. VFM3000EDS / L (DV (LISTA) adjustment tape)

TIME	VIDEO		PCM AUDIO		CUE	
(min.)	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	LISTA signal	Adjustment of the linearity	-----	-----	-----	-----

3. List of Recommended Measuring Instruments

MODEL NO. (Example)	NAME	REMARK
TSG1411	PAL analog composite signal generator (with CF OUT)	Tektronix
1761 (op. SC) or 1781R	SCH meter	
	Waveform monitor	
	Vector scope	
	Oscilloscope	
	Digital voltmeter (D.V.M.)	
	Frequency counter	
	Audio noise meter	
	Audio analyzer	
	Spectrum analyzer	

4. Maintenance

4-1. Maintenance Schedule

Maintenance is done by periodically performing suitable maintenance servicing in order to maintain the functions always in the best condition, so that the user can use the equipment safely. Video equipment with mounted mechanisms uses wear parts, and their wear and deterioration causes troubles. Dust and dirt also can impair stable operation. For this reason it is important not to just perform repair at the time of trouble, but also to perform suitable maintenance at regular intervals.

	Part name	Part No.	Hours of use (unit: hours)				
			Every 1000	3000	6000	9000	12,000
-	Cleaning of the travel system	-----	C: Every 500 hours				
-	Mechanical chassis unit	VXY1631Z1					R
1	Cylinder Unit	VEG1498		R	R	R	IM
2	Pinch Arm Unit	VXL2835		R, G	R, G	R, G	IM
3	Cleaning Arm Unit	VXL2748	R, Y	R, Y	R, Y	R, Y	IM
4	S-Reel Motor Unit	VEM0686			R		IM
5	T-Reel Motor Unit	VEM0687			R		IM
6	Thrust Screw Unit	VXQ0556			R, L		IM
7	Mode SW Unit	VES0929			R		IM
8	S1 Loading Arm Unit	VXL2709					IM
9	T1 Boat Unit	VMD2533					IM
10	S5 Post Base Unit	VXA6052					IM
11	Tension Arm Unit	VXL2831					IM
12	A/C Head	VED0419					IM
13	Loading Motor (1) Arm Unit	VEM0645					IM
14	Reel Drive Motor Unit	VEM0585					IM
15	Pinch Solenoid	VSJ0227					IM
16	S Brake Solenoid	VSJ0216					IM
17	T Brake Solenoid	VSJ0216					IM
18	Distinction SW Unit	VXA6199					IM
19	Cleaner Solenoid	VSJ0226					IM
20	Main Cam Gear	VDG1168					IM
21	M Stopper Brake Solenoid	VSJ0216					IM
22	Front-loading unit	VXA6070					R
23	Front Loading Motor	VXA5597					F
24	Fan motor	L6FALEFH0007	Exchange after every 10,000 h of energization				

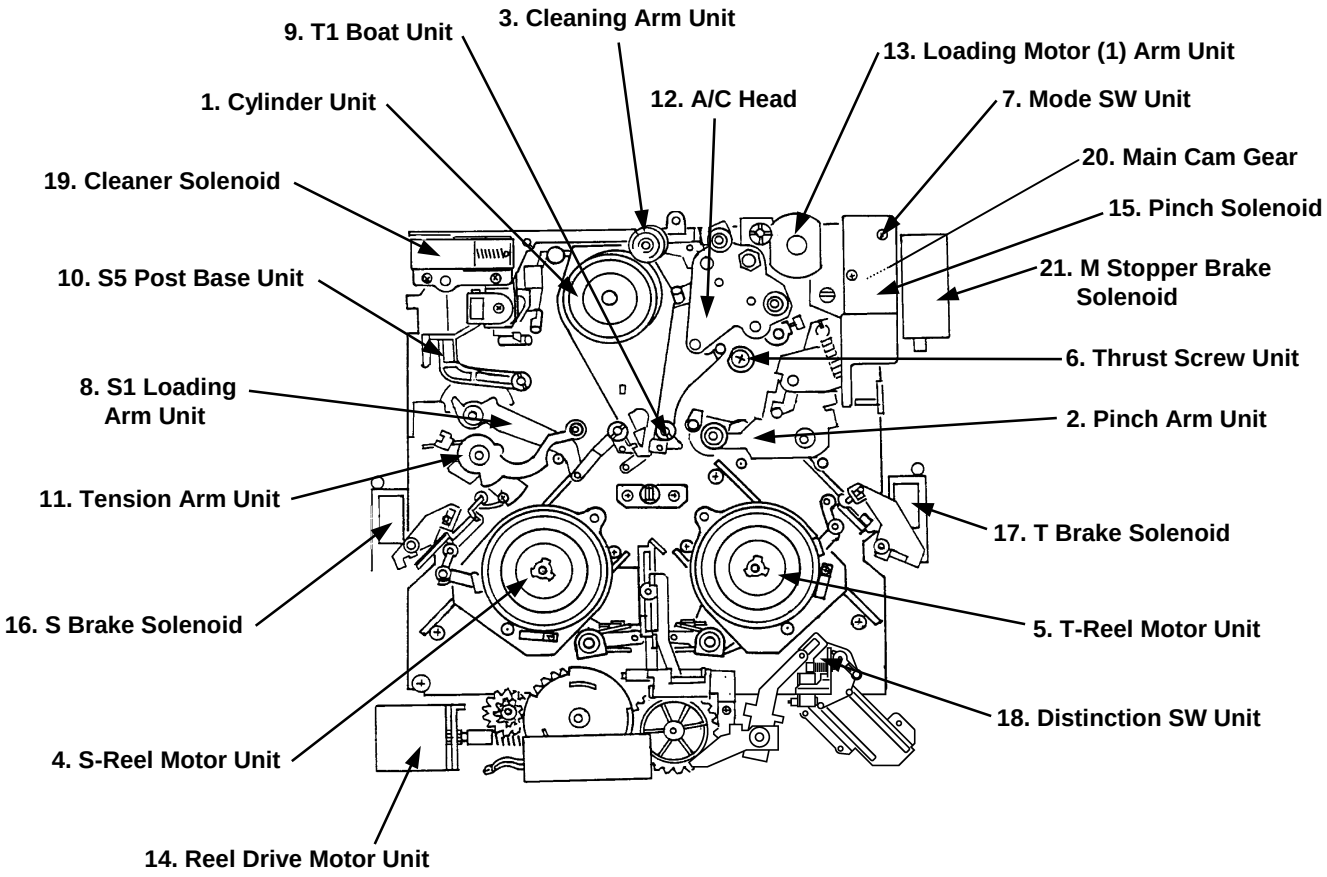
Replacement of the mechanical chassis unit is recommended for the 12,000 h maintenance.

C : Perform cleaning.
R : Assembly subject to exchange.
Y : The timing of replacement with Cleaning Arm Unit, either 1000 hours or 1 year as timing come earlier.
G : At the time of exchange, wipe off the old grease and apply new grease. (Morlytone grease)
L : Lubrication is necessary.
IM : Included in the mechanical chassis unit. When the mechanical chassis unit is not exchanged, exchange as a single part is required.
F : Included in the front-loading unit.

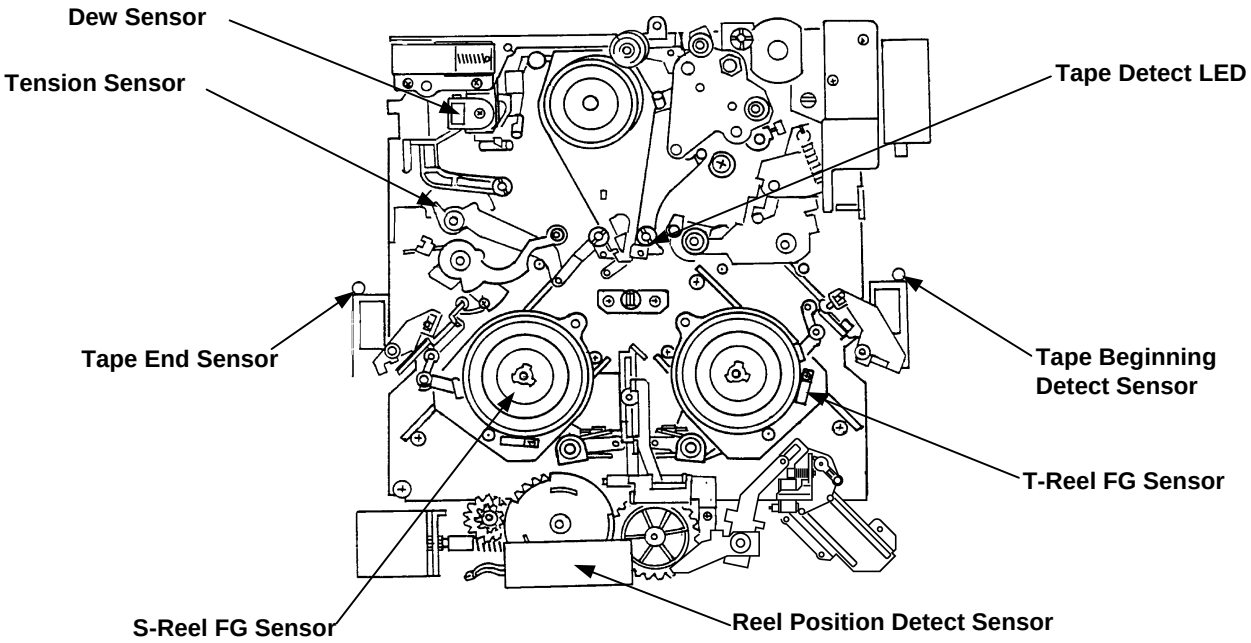
<Note:>

The Hours of use indicates the cylinder rotation time (DRUM RUN).
The maintenance execution time shown in the chart is recommendation for standard maintenance execution. This is not the life of the various parts. The life is influenced by temperature, humidity, dust, etc.
Please refer to the most recent execution outline, as the maintenance specifications and the part numbers may change.

4-2. Layout of the Maintenance Parts



4-3. Layout of the Other Parts



5. Manual Tape Eject (Emergency Eject)

When a tape can not be ejected by normal operation due to some trouble, the tape can be removed manually as follows.

1. Turn off power and remove the top Case Unit.
2. Rotate the red plastic screw by a Phillips-head screwdriver counterclockwise pushing the screw. It needs to rotate until Post starts moving. (about 30 times rotation).

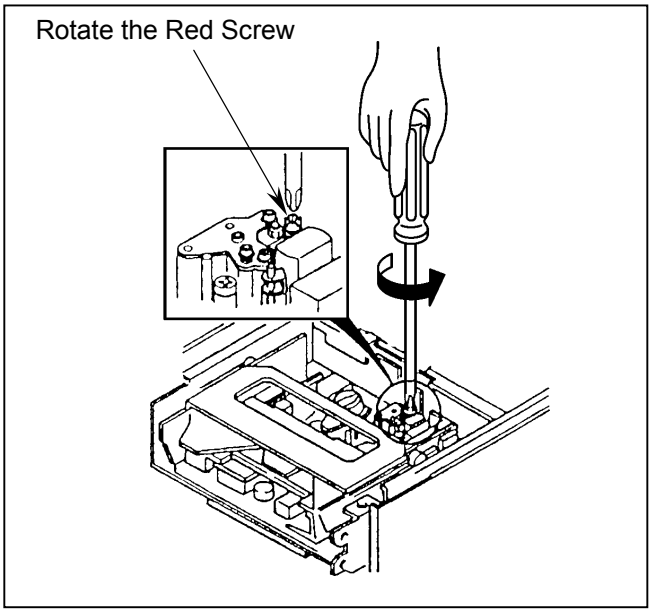


Figure 5-1. Post unloading

3. Since tape slack will occur when the post is unloaded, rotate the supply reel to wind up the tape.
   How to wind up the tape (see Figure 5-2)
   a. Insert the rubber side of the take-up jig to the cassette rid opening position from mechanism side.
   b. Turn the flange of the supply reel in the direction of winding to eliminate the tape slack. (Take care not to damage the tape in the process.)

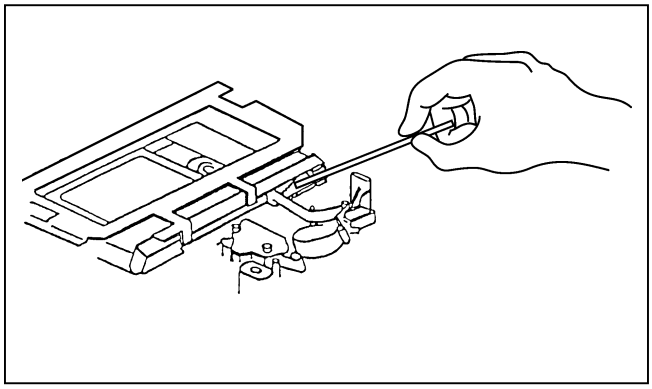


Figure 5-2. Rotate the S Reel

4. Repeat item 2 and 3 until the tape in wound up completely inside of the cassette.
5. When the tape is completely gotten inside of the cassette, rotate the red screw in front of the worm gear of the cassette down motor clockwise by a philips-head screwdriver pushing the screw. Remove the cassette with care not to pinch the tape by cassette rid when it is closed.

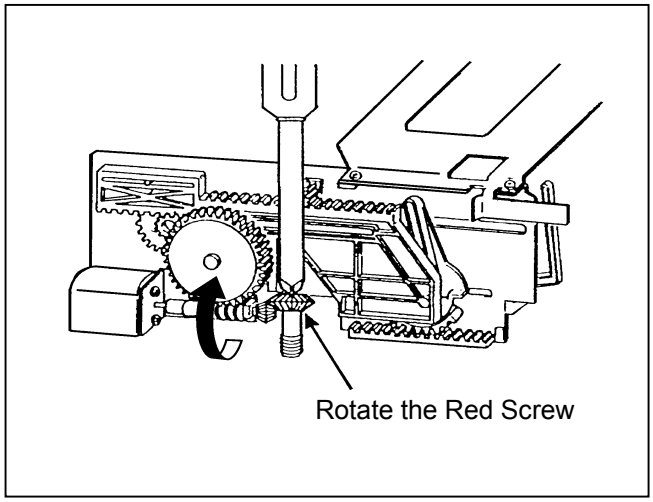
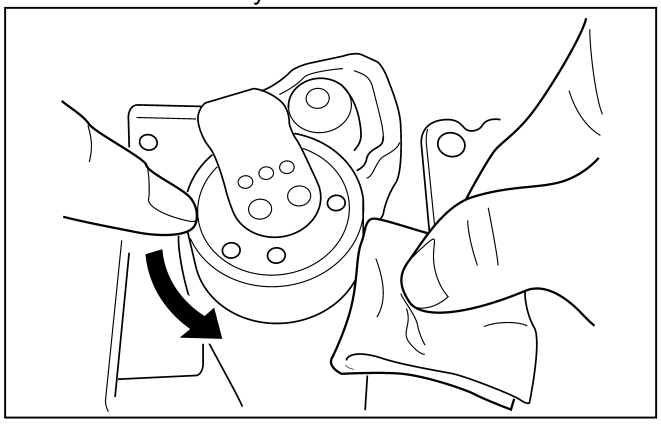


Figure 5-3. Cassette unloading

6. Cylinder Head Cleaning Method

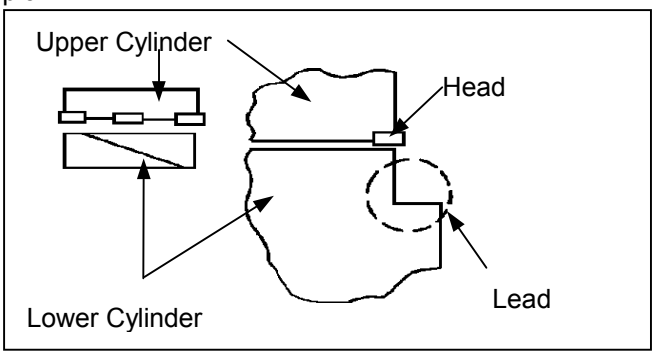
6-1. Cylinder Head Chips Cleaning Method: (Daily)

1. Turn off Power.
2. Dip cloth into De-natural Alcohol.
3. Press cleaning cloth gently against Cylinder Head. Using your finger on the top edge of the upper cylinder, rotate the cylinder counter-clockwise several times to clean.
4. Repeat cleaning procedure until all residue is removed from Cylinder Head.



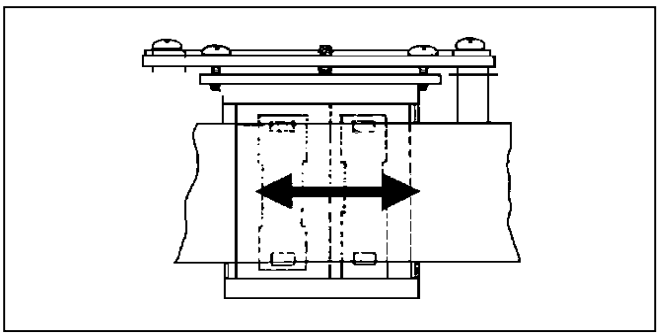
6-2. Cylinder Lead Cleaning Method: (Weekly)

Don't touch a head chip. Clean the drum lead with a pick.



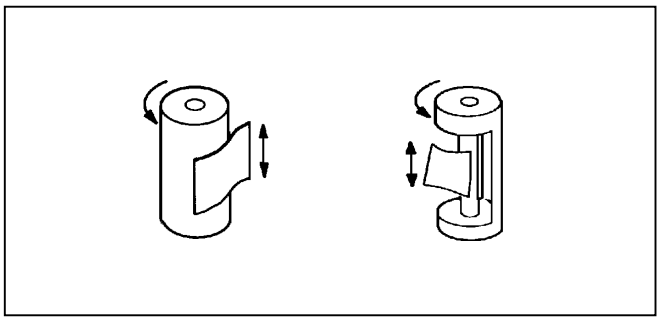
6-3. A/C Head Cleaning Method: (Weekly)

Wipe the A/C head with a cloth dipped in cleaning liquid. Wipe again with a dry cloth.



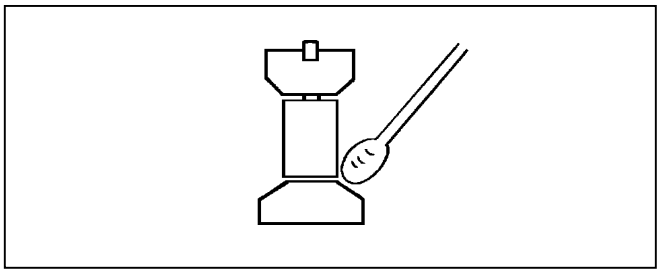
6-4. Pinch Roller and Capstan Shaft Cleaning Method:(Weekly)

Wipe the Pinch Roller and Capstan with a cloth dipped in cleaning liquid.



6-5. Post Cleaning Method: (Weekly)

Wind a cloth on a pick. Wipe each posts with that pick. Wipe again with a dry cloth. For metal posts wipe with a cloth dipped in cleaning liquid. Then wipe it again with dry cloth.

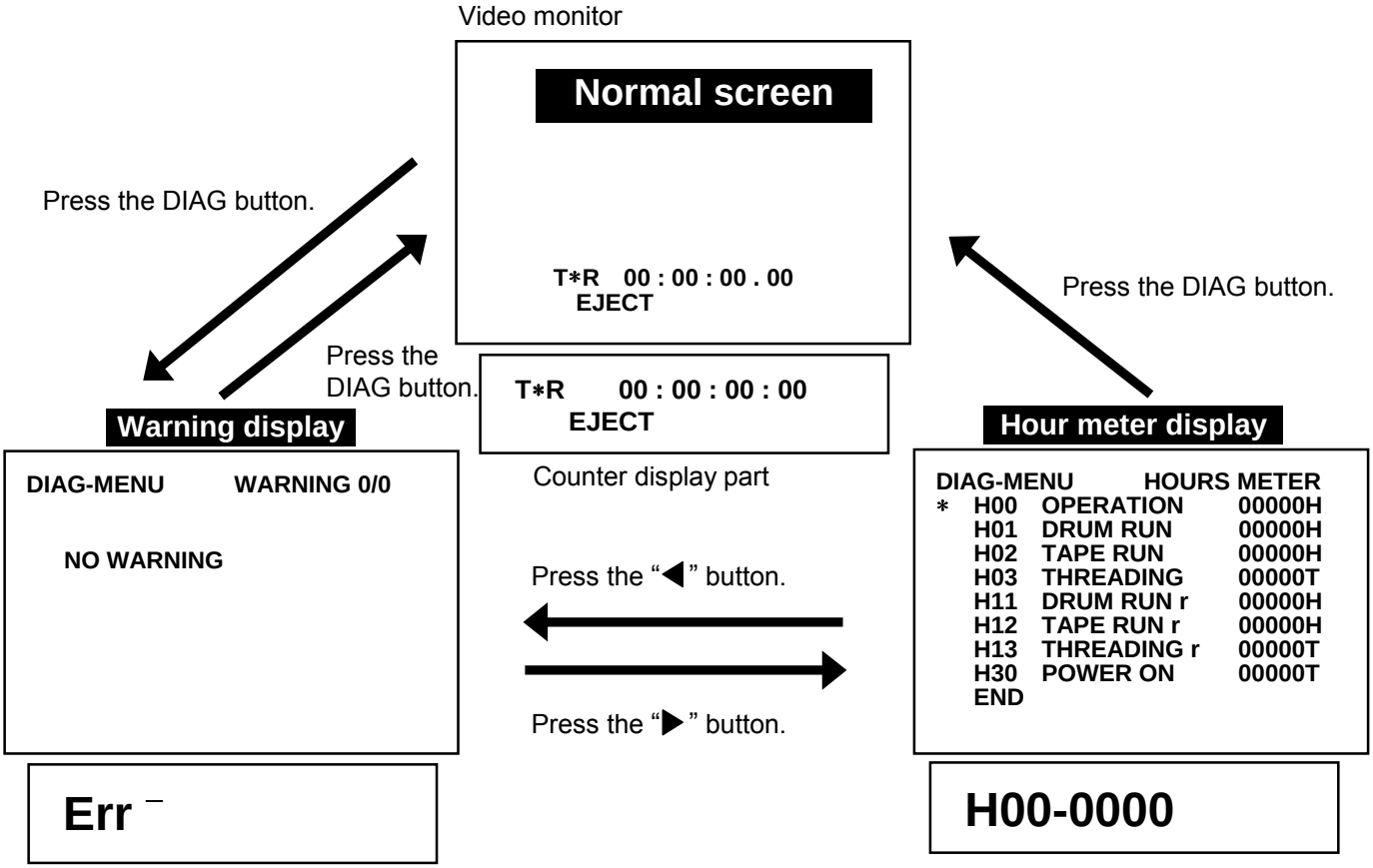


7. DIAG-MENU Display

The **DIAG-MENU** is the menu for investigating the status of the VTR, and it has the warning display (WARNING) and the hour meter display (HOURS METER).

7-1. DIAG-MENU Operation Method

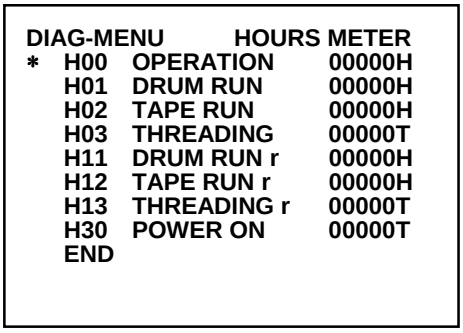
1. Press the "**DIAG**" button."**DIAG-MENU**" will be displayed on the video monitor (VIDEO OUT 3) and on the counter display (front panel).
2. The display switches between the warning information and the hour meter information each time when the "◀ ▶" is pressed.
3. When the "**DIAG**" button is pressed again, it returns to the normal screen.



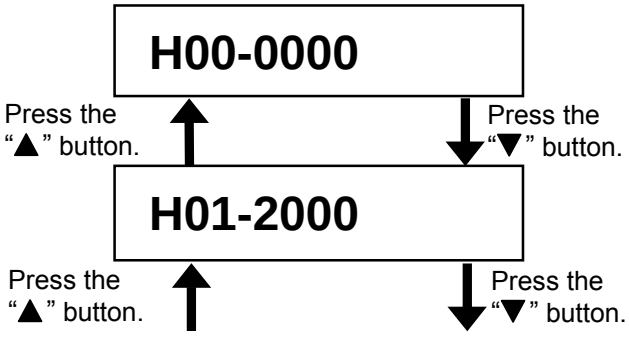
Please refer to operating instructions, in regard to the WARNING display (information).

7-2. Hour Meter Display

1. When the "▼" and "▲" button is pressed during hour meter display, the operation hours for each item can be confirmed on the counter display part (front panel).



Video monitor

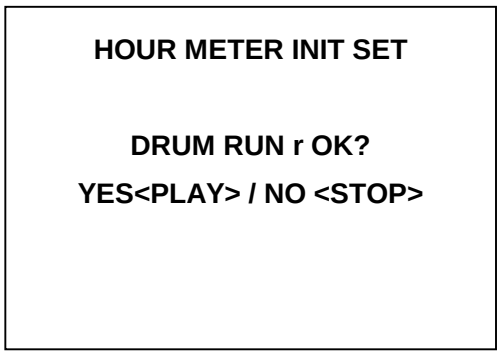


Counter display part (front panel)

7-3. How to Reset the Hour Meter

DRUM RUN, TAPE RUN and THREADING information can be reset individually.

1. Press the "EJECT" and "STOP" button simultaneously, and press the "DIAG" button. The Hour Meter page is displayed on the video monitor (VIDEO OUT 3).
2. Set the cursor "*" to the indicated "r" mark item(item H11,12 or 13) by pressing the cursor buttons (▲ or ▼). And press "RESET" button on the front panel, then the following message appears on the screen.



3. Press "PLAY" button to reset the hour meter or "STOP" button to ignore the reset.

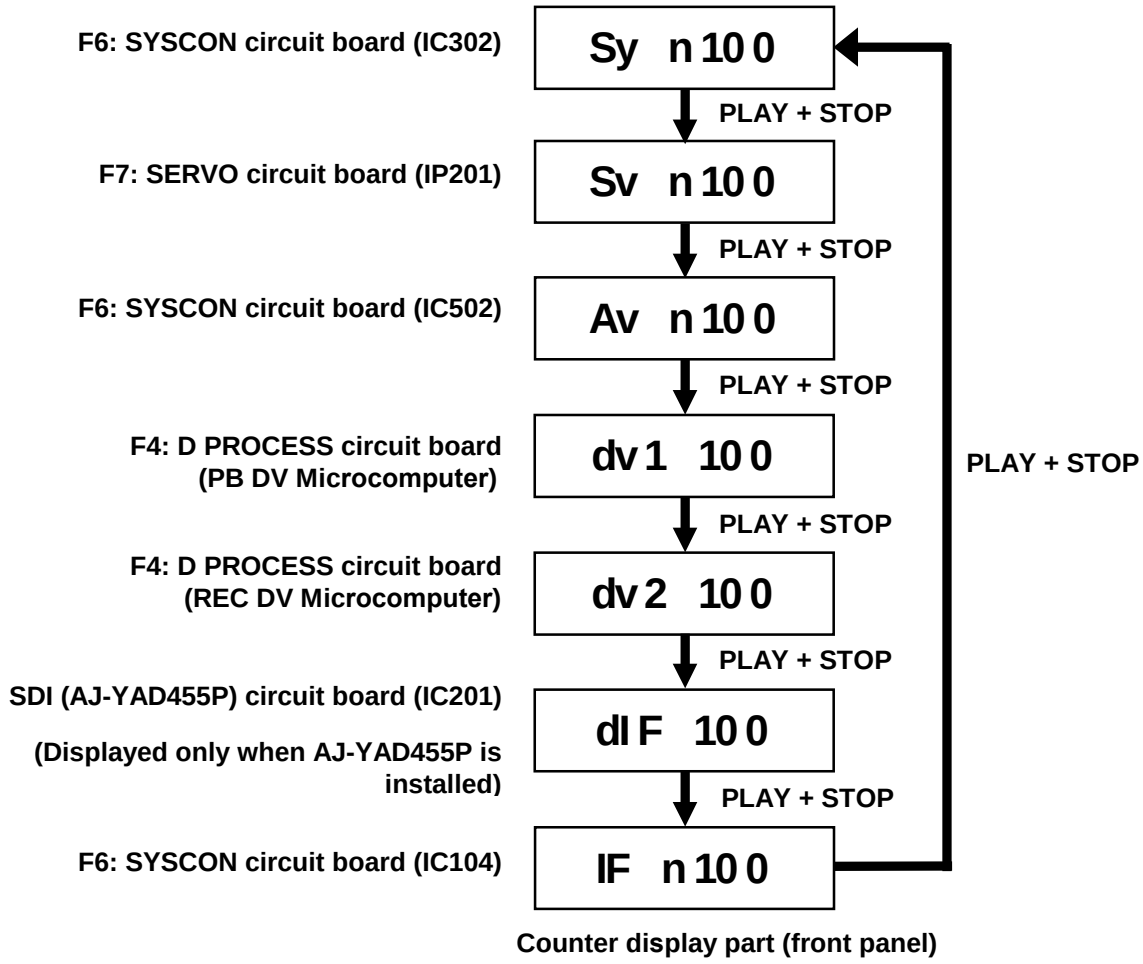
<Note>

Be careful, if press the "RESET" button more than 2 seconds when select the item H00-H03 and H30, the all hour meter information are reset to ZERO.

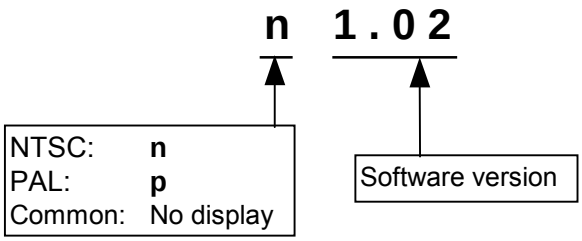
8. Software Version Display

8-1. Version Display Operation Procedure

1. Press the "**EJECT**" button. (If a tape is inserted, eject it.)
2. When the "**PLAY**" button and the "**STOP**" button are pressed simultaneously, the version will be displayed on the counter display part (front panel) while these buttons are being pressed.
3. When the "**PLAY**" button and the "**STOP**" button are pressed again, the software version for each item can be confirmed.



8-2. How to Read the Version Display

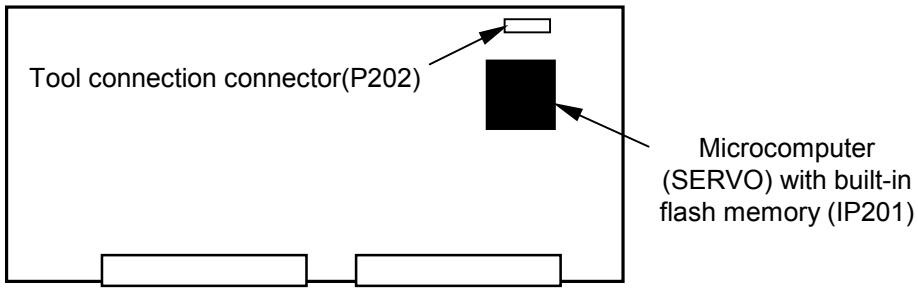


9. Software Version Upgrade Method

9-1. Version Upgrade for the SERVO Microcomputer with Built-in Flash Memory

The SERVO microcomputer of the **F7: SERVO** circuit board has a built-in flash memory. For the software version up, connect the "**Flash memory version up tool (VFK1304A)**" to the tool connection connector and use the "**Servo version up software (VFK1503)**" according to the following procedure.

F7: SERVO circuit board



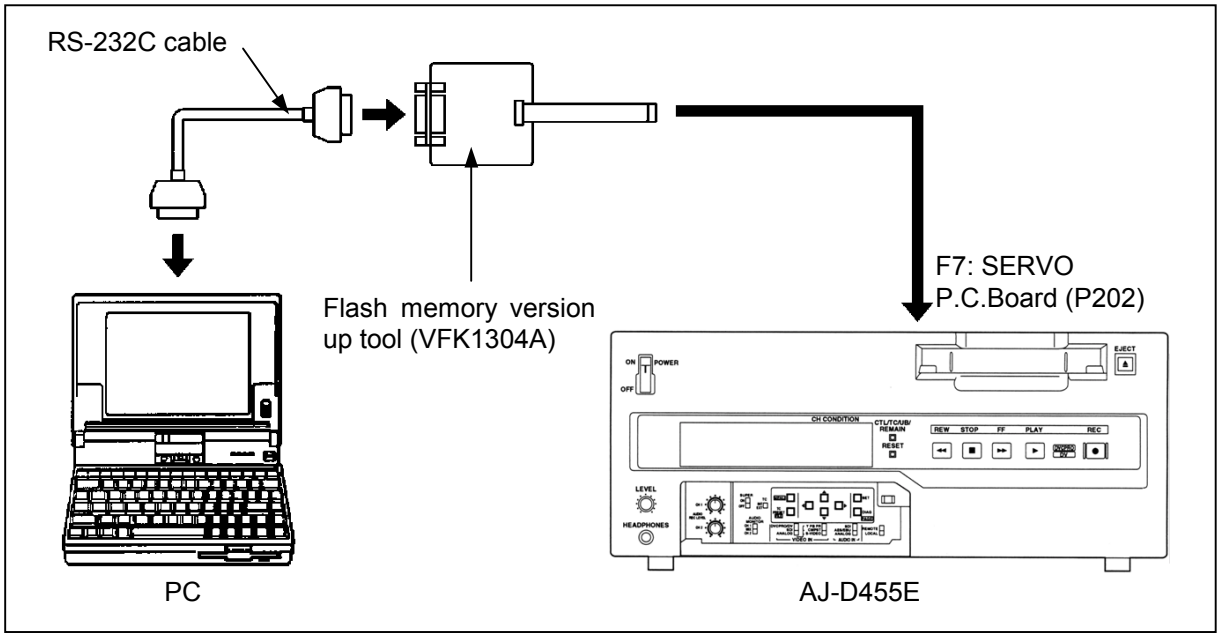
1. Prepare a personal computer (MS-DOS, Windows 95 or 98).
2. Copy the servo version up software (VFK1503) and the new servo microcomputer software into the same directory of the personal computer. (The following four types of software.)

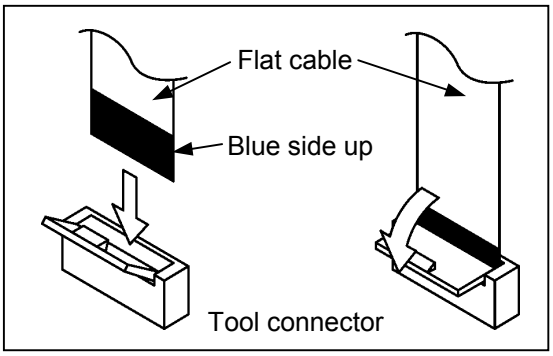
Version up software (VFK1503)	**"fw103u.exe"**
Servo microcomputer software	**"vsiXXXX.obf"**
	"vsiXXXX.bat"
	"vsiXXXX.ex"

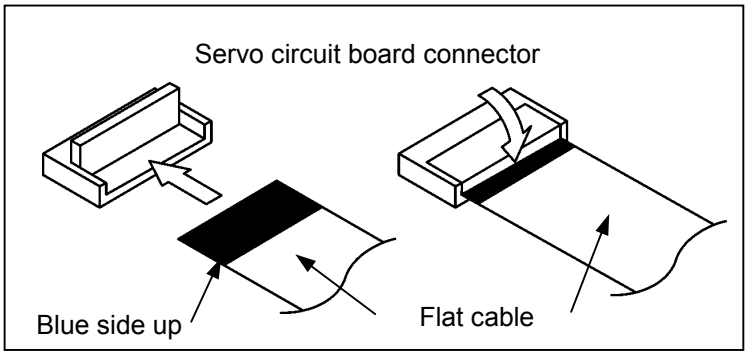
3. Confirm the switch settings for the "Flash memory version up tool (VFK1304A)".

SW1-1: ON	**SW1-3: OFF**
SW1-2: ON	**SW1-4: OFF**

4. Connect the AJ-D455E, the "Flash memory version up tool (VFK1304A)", and the personal computer as shown below. Pay attention not to confuse the connection direction (rear, front) for the flat cable of the tool (VFK1304A).







5. Turn on the AJ-D455E power.
6. Execute the "**VSIXXX.bat**" copied to the personal computer. It also can be done directly on Windows. (During execution, the file "servo.exe" will be created, but this may be left in the directory without any problems.)
7. When the following screen is displayed, enter "Y" and press "**ENTER**". (During program writing, the progress is shown on the display of the personal computer.)

```
/=== MN103004 FLASH ROM VERSION UP SOFTWARE ===/

        1 file(s) copied

/=== Initializing ===/
Could not record flash memory exchange record.
Do you continue ? Y/N > Y_
```

8. Writing is completed when the following screen appears.

```
fw103> #--- âtâëâbâVâàé¦¸Rææ½ìRé▌é≡änéⁿé▄éπ ---
fw103> load servo.ex
Ex format file analysis ...
start loading

Zero writing before erase .
Erase block .
0x00002000 - 0x00003fff writing
0x00004000 - 0x00005fff writing
0x00006000 - 0x00007fff writing
0x00008000 - 0x00009fff writing
0x0000a000 - 0x0000bfff writing
0x0000c000 - 0x0000dfff writing
0x0000e000 - 0x0000ffff writing
0x00010000 - 0x00011fff writing
0x00012000 - 0x00013fff writing
0x00014000 - 0x00015fff writing
0x00016000 - 0x00017fff writing
0x00018000 - 0x00019fff writing
0x0001a000 - 0x0001bfff writing
0x0001c000 - 0x0001dfff writing

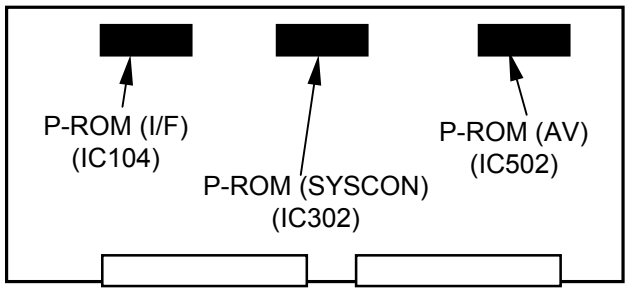
Load finished
fw103> q
```

9. Turn off the AJ-D455E power and disconnect the cables connected.

9-2. E-PROM (SYSCON, IF, AV) Version Upgrade

The **F6: SYSCON** circuit board use an E-PROM (SYSCON, I/F, AV).
For the software version up, replace an E-PROM with the new version.

F6: SYSCON circuit board



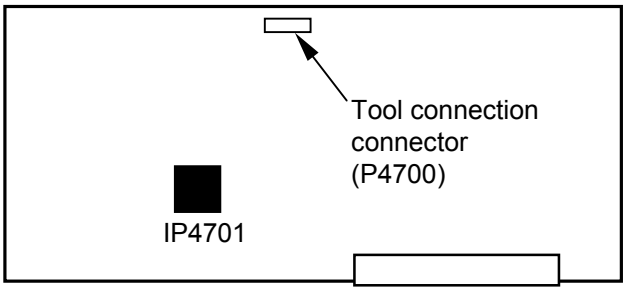
9-3. PLD Version Upgrade Procedure

The AJ-D455E uses **PLDs**. At the time of a version upgrade, use the special tool, connect the respective connection connectors, and use the PLD writing software.

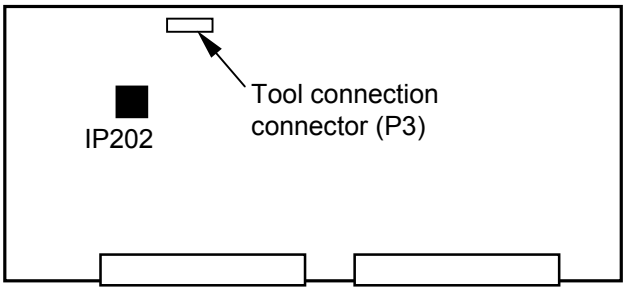
9-3-1. PLD Chart

Circuit board name	Connector	Number of pins'	PLD No.	PLD maker	Use quantity
F1: AUDIO	P4700	8P	EPM3256A1410	ALTERA	1
F2: V OUT	P3	8P	EPC2TC32	ALTERA	1
F3A:SDI(AJ-YA455P)	P3500	8P	XC1801VQ44C	XILINX	1
F4: D PROCESS	P3101	8P	EPC2TC32	ALTERA	2
F5: V IN	P3002	8P	EPC2TC32	ALTERA	1
F7: SERVO	P300	8P	EPM3256A1410	ALTERA	1

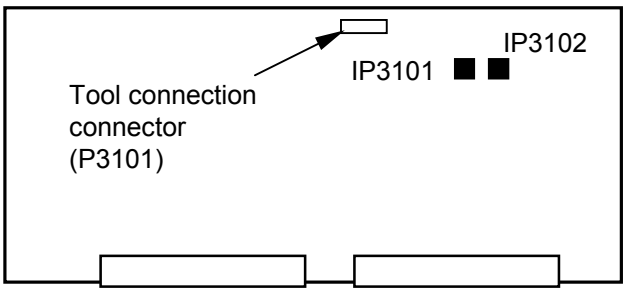
F1: AUDIO circuit board



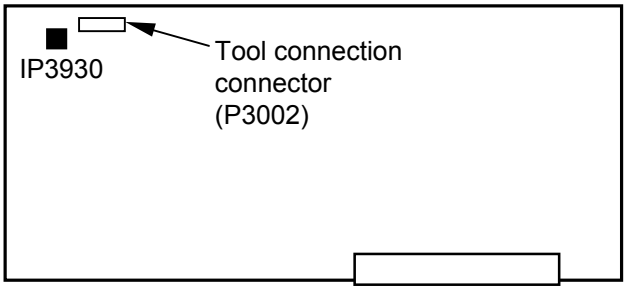
F2: V OUT circuit board



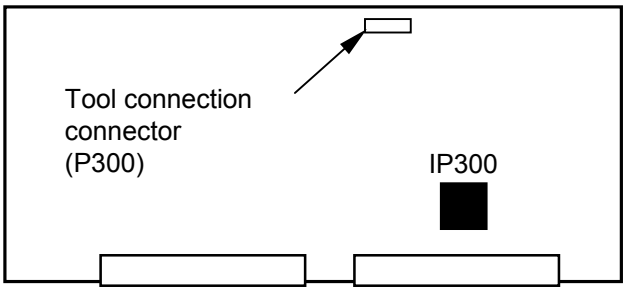
F4: DIGITAL PROCCESS circuit board (Foil side)



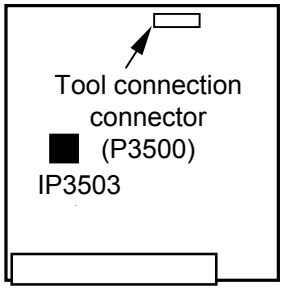
F5: V IN circuit board



F7: SERVO circuit board



F3A: SDI (AJ-YA455P) circuit board



9-3-2. CPLD Version up Method 1 (ALTERA)

A. Preparation

ITEM	REMARK
C PLD WRITER	VFK1590 VFK1590P2 (VFK1590 standard)
D-sub 25pin-25pin Cable	Straight (Male - Female), Length : Within 1meter
Version Upgrade Software	MAX+plus II Software (Please Download from www.altera.com/support/devices/programing/sup-asap2.html)
Version Upgrade Data	TDF File or POF (Include in “vsi xxxx” file)
Personal Computer	WINDOWS 95® or 98®

B. Connection

1. Connect the D-sub Cable between CN201(for ALTERA) connector of the CPLD WRITER (VFK1590) and Personal Computer (Printer port).
2. Connect the CPLD WRITER Cable (VFK1590P2) between connector on objective PCB and P2 connector of CPLD WRITER. (Refer to 9-3-1.Chart of PLD Writer and Figure 9-3-2.)
3. Turn on AJ-D455E and Personal Computer (Windows mode).

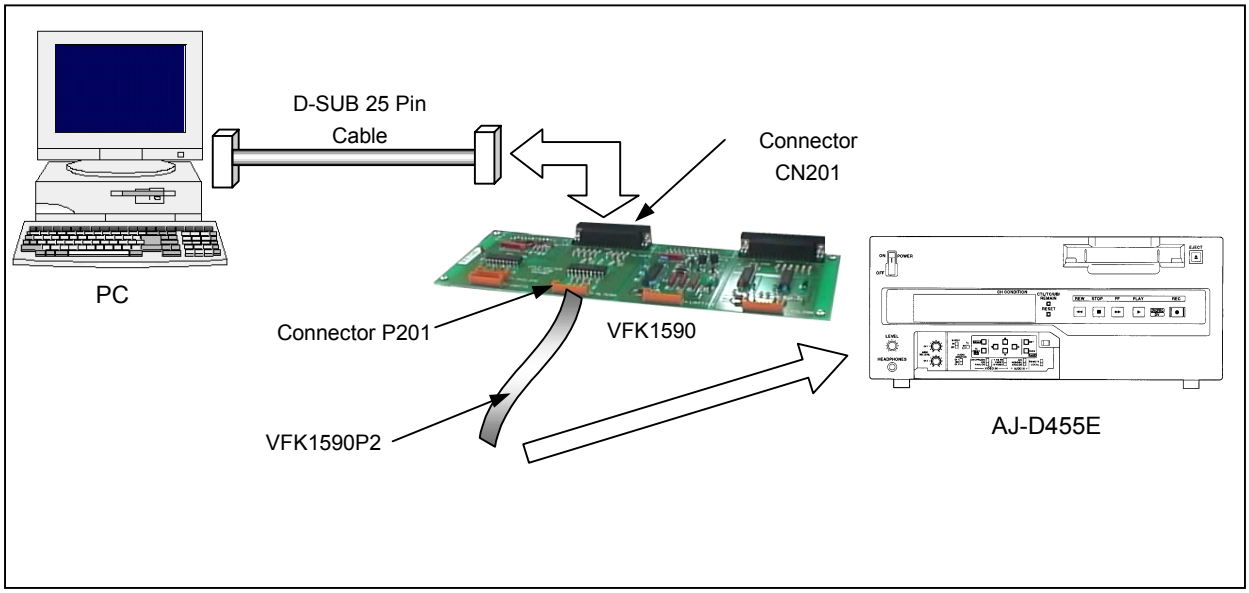
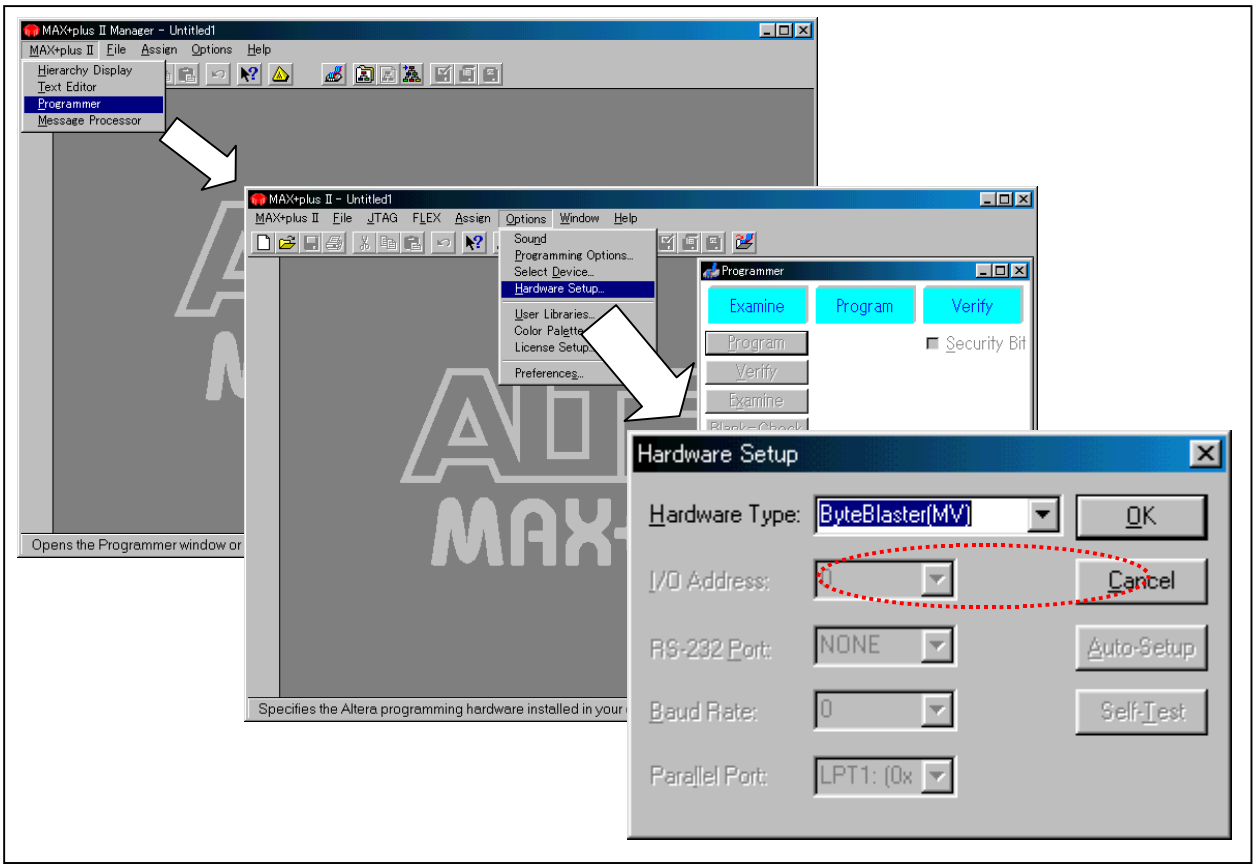


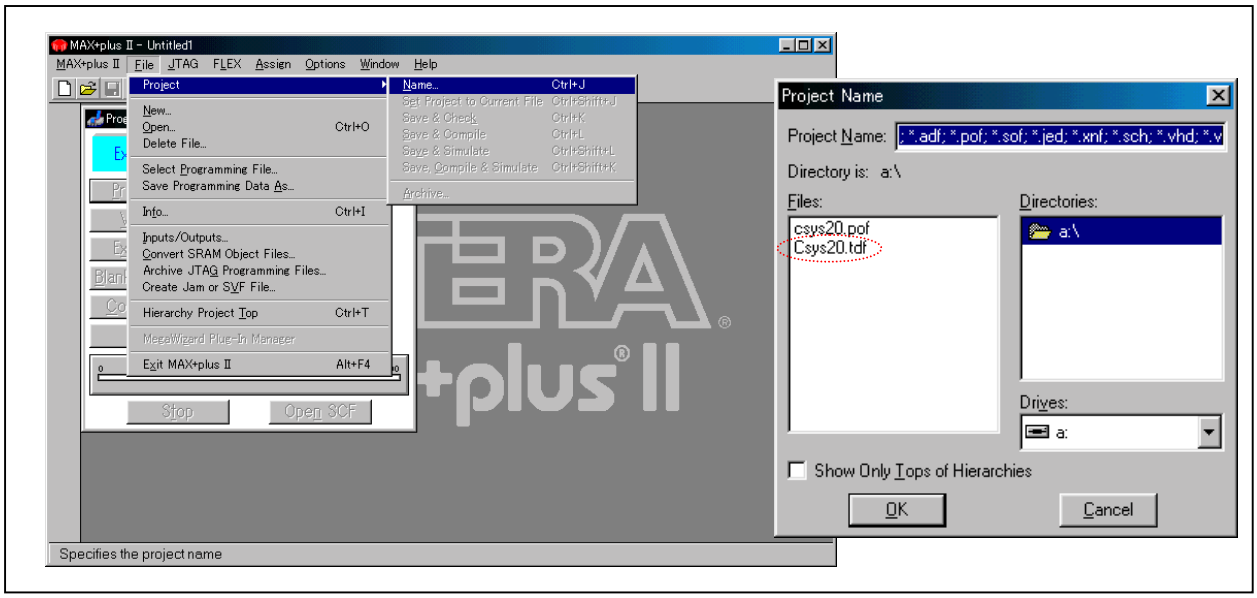
Figure 9-3-2 Connection for CPLD version up

C. Boot up the Ver. up Software and Ver. up Procedure

1. Boot up the **"MAX+plus II 9.6 programmer only"** Software.
2. On main window, select tab **"MAX+plus II"** and then **"Programmer"**.
3. On main window (Programmer window is displayed), select tab **"Option"** and then **"Hardware Setup"**.
4. On **Hardware Setup** dialog, set the **"Hardware Type"** to **"Byte Blaster (MV) "**.



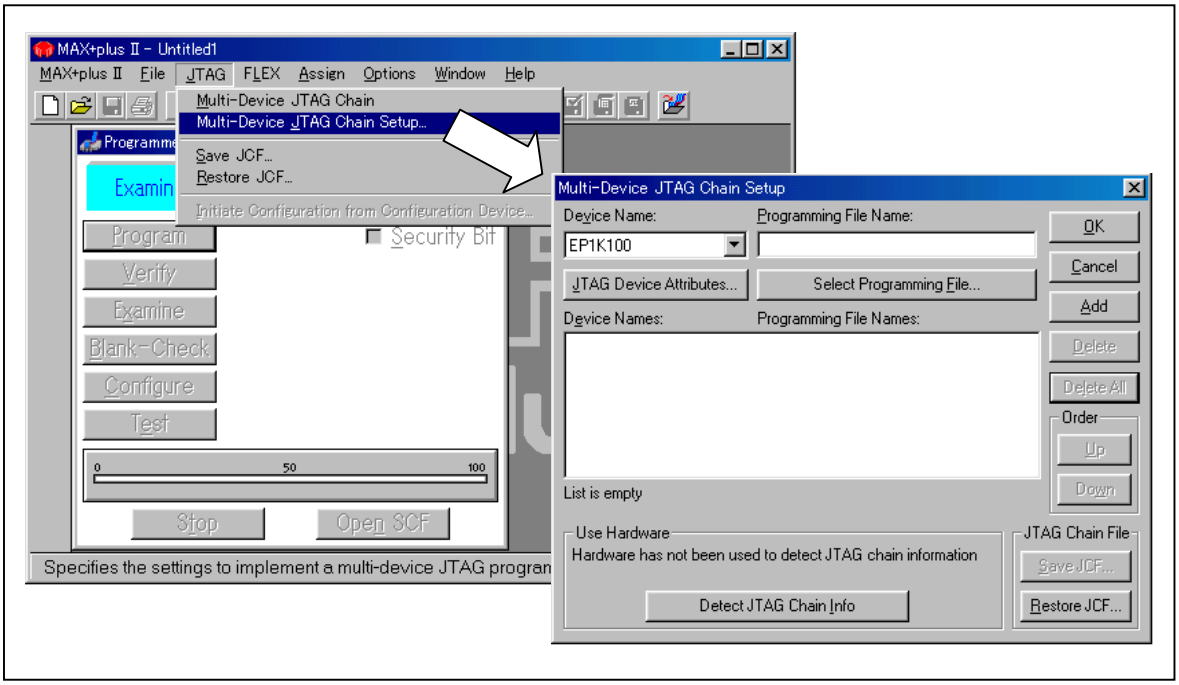
5. On main window, select tab **"File"**, **"Project"** and then **"Name"**.
6. On dialog of **Project Name**, select the **"tdf format file"** or **"pof format file"** and then perss **"OK"** button.



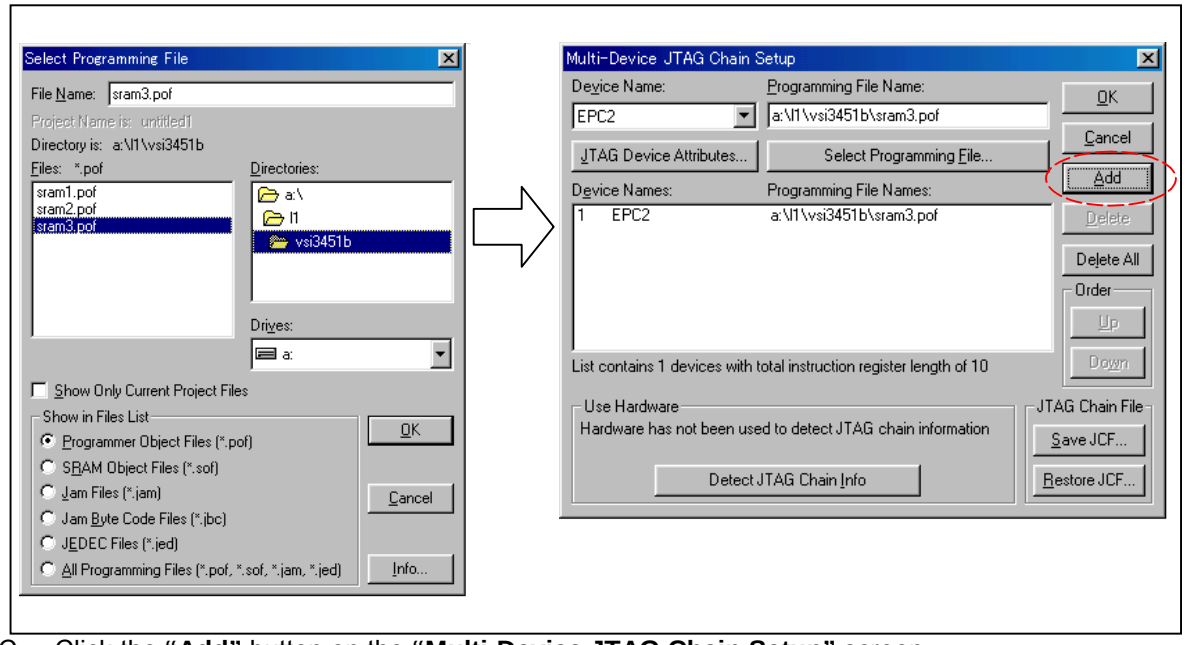
<Reference : Creation of chain file>

Use a **"chain file (in jcf format)"** for write-operation when a PCB includes several PLDs.
If no chain file has been created, create a chain file by the following procedures. (Example of L1 PCB)

A. Select **"Multi-Device JTAG Chain Setup"** on the main screen to display the **"Multi-Device JTAG Chain Setup"** screen.

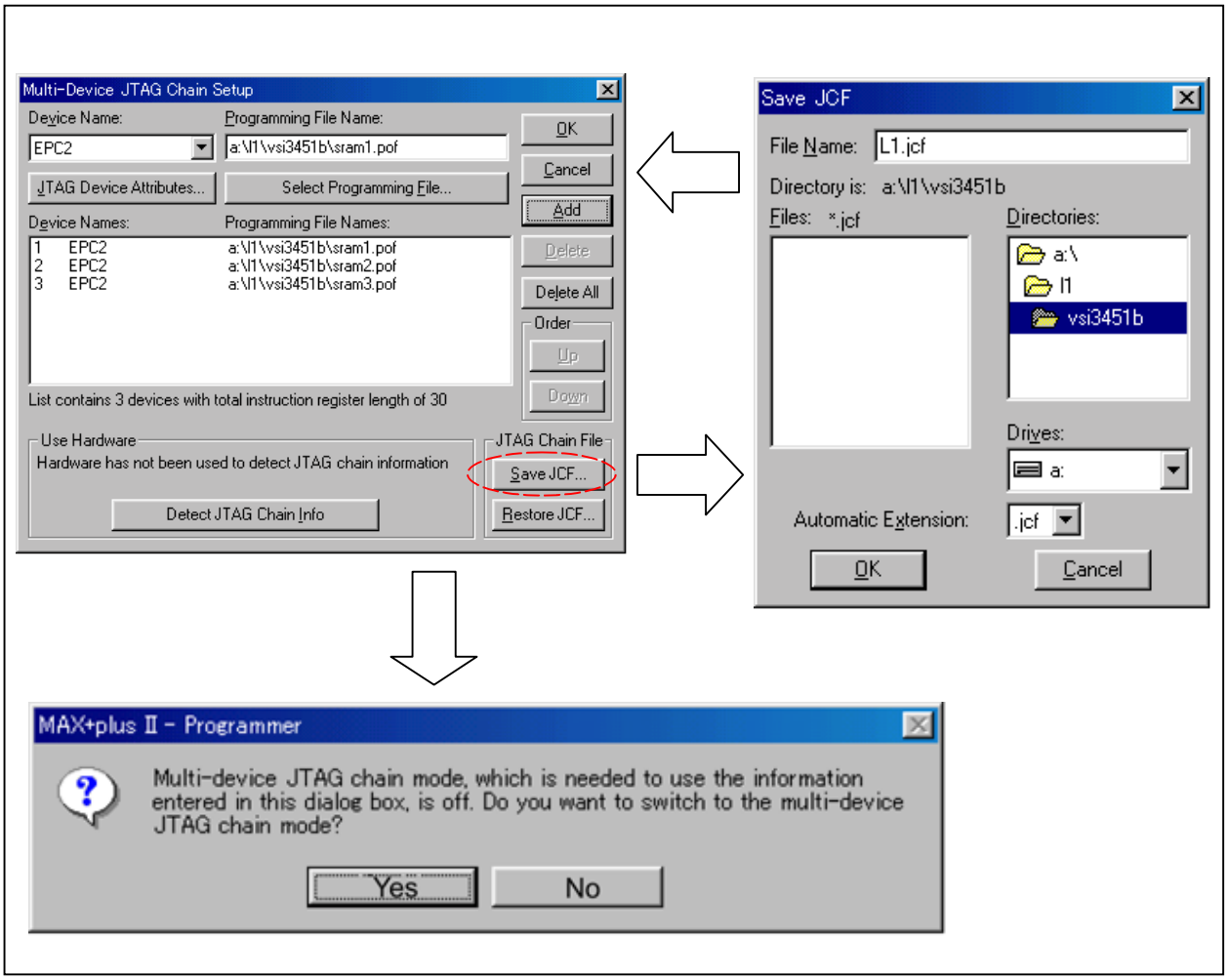


B. Click the **"Select Programming File"** button to display the **"Select Programming File"** screen. Next, select the drive which has software, and select the **"pof"** file. If three pof files can be seen as shown below, select a file in order of larger number, and click the **"OK"** button. Then, the **"Multi-Device JTAG Chain Setup"** screen is displayed.

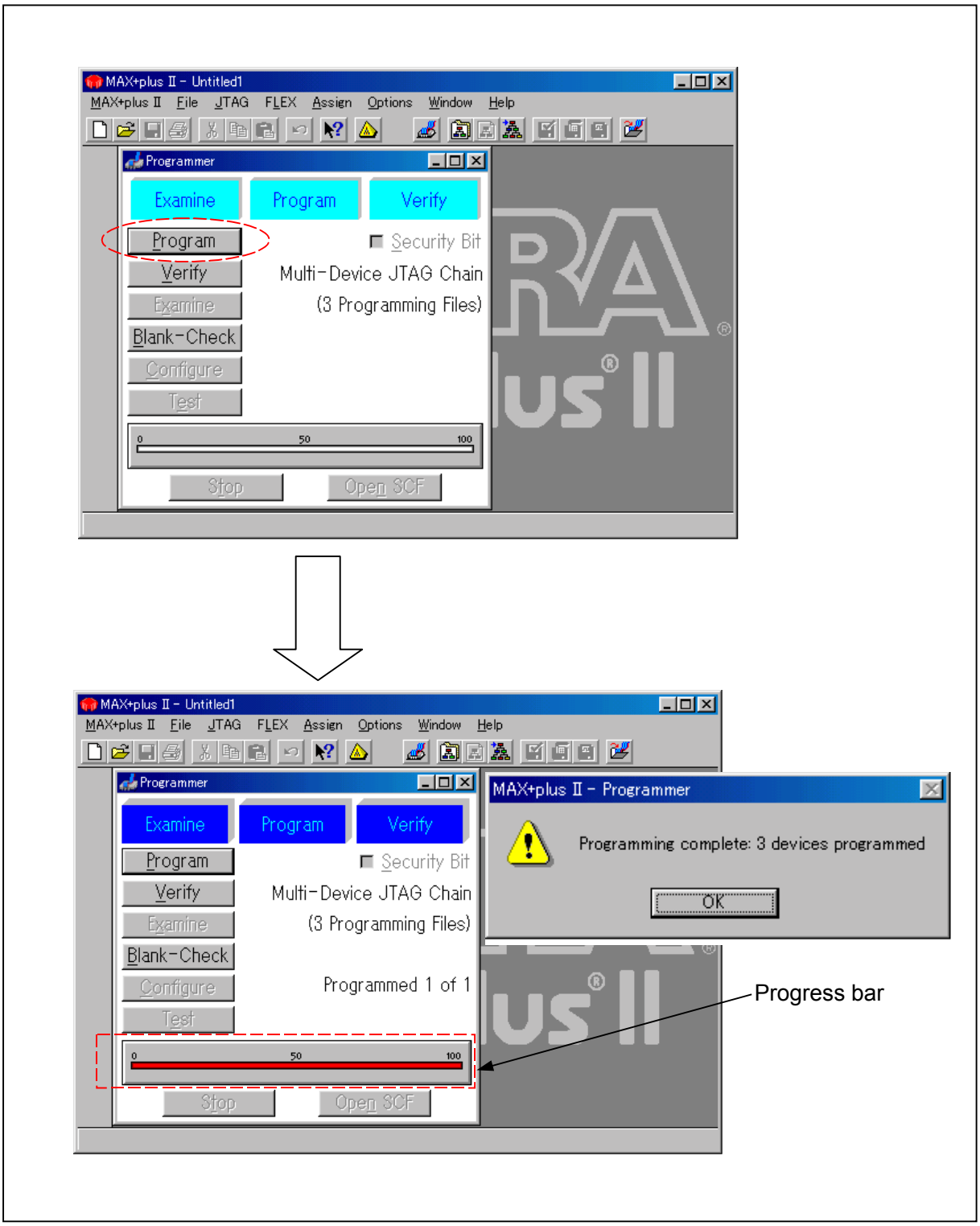


C. Click the **"Add"** button on the **"Multi-Device JTAG Chain Setup"** screen.

D. Repeat the steps 2 and 3 to capture the **"pof"** file.
E. Click the **"Save JCF"** button. Then, the **"Save JCF"** screen is displayed.
F. Enter a file name, and click the **"OK"** button.
G. Click the "OK" button on the **"Multi Device JTAG Chain Setup"** screen. Then, the following message is displayed : Multi-device JTAG chain mode, which is needed to use the information entered in this dialog box, is off. Do you want to switch to the multi-device JTAG chain mode ?
When this message is displayed, click **"YES"**.



7. Click the **“Program”** button on Programmer dialog.
8. When Progress Bar reaches at point of **100**, the message “Programming Complete” appears, then PLD version upgrade is completed. Click **“OK”** button on the **Programming complete** message Dialog.



* MAX+PLUS are registered trademarks of Altera Corporation.

* Windows95 and Windows98 are registered trademarks of Microsoft Corporation.

9-3-3. PLD Version up Method 2 (XILINX)

A. Preparation

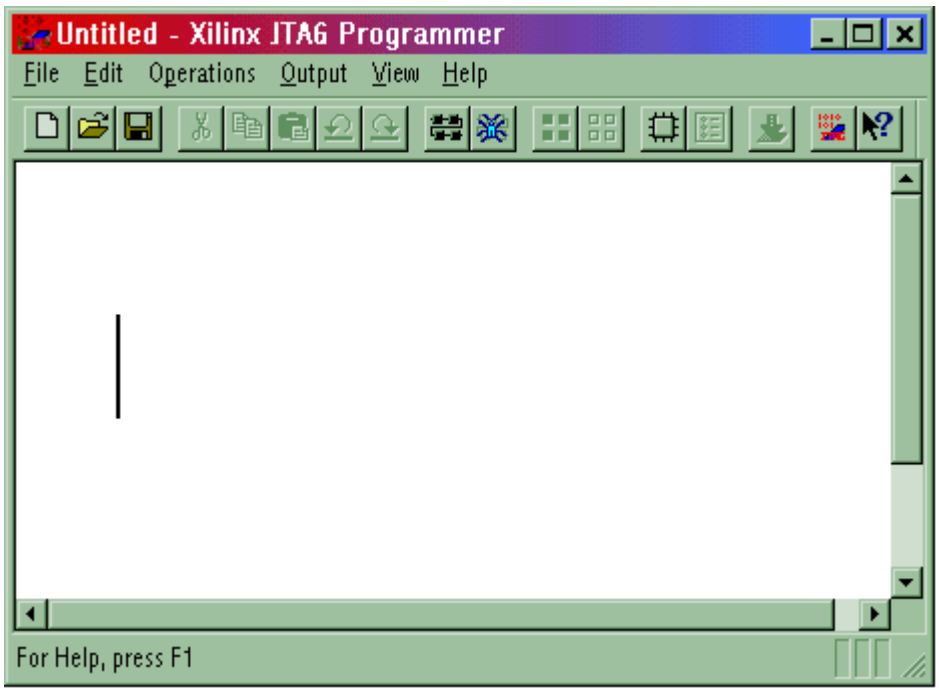
ITEM	REMARK
C PLD WRITER	VFK1590 VFK1590P4 (VFK1590 standard)
25pin-25pin Cable	Straight (Male - Female), Length : Within 1meter
Version Upgrade Software	JTAG Programmer Software Please download from the following URL http://www.xilinx.com/support/download.htm 1. Open this page and then select "WebPACK ISE". 2. Before downloading, Registration is required to get ID and Password. 3. Select FPGA and XPLA programmer from "Getting Start" menu.
Version Upgrade Data	cdf File (Include in VSI**** file)
Personal Computer	WINDOWS 95® or 98®

B. Connection

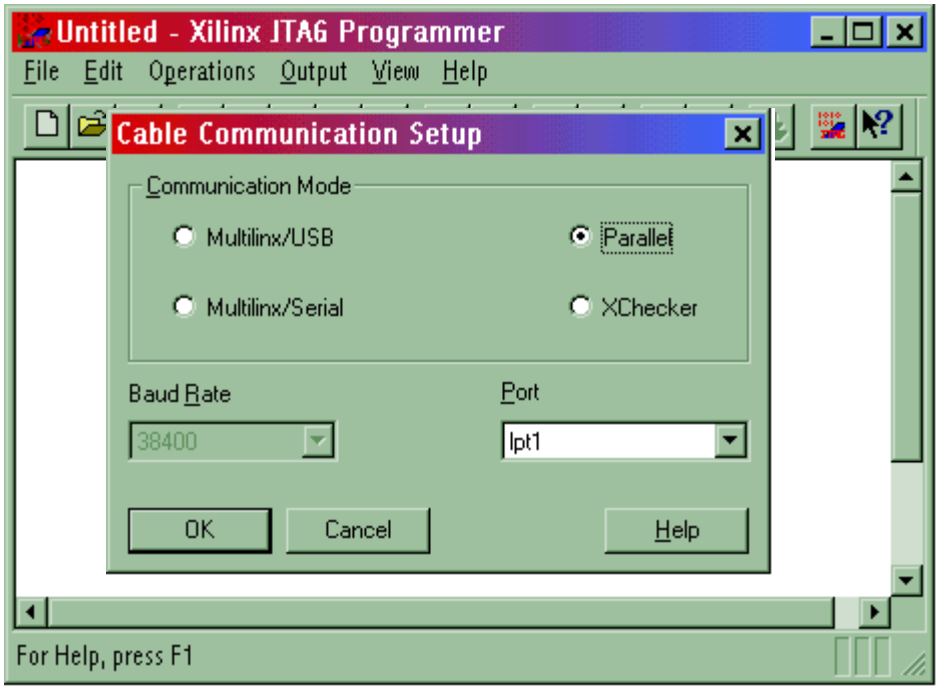
1. Connect the D-sub Cable between CN401(for XILINX) connector of the CPLD WRITER(VFK1590) and Personal Computer (Printer port).
2. Connect the CPLD WRITER Cable (VFK1590P4) between connector on objective PCB and P4 connector of CPLD WRITER. (Refer to 9-3-1.Chart of PLD Writer and Figure 9-3-2.)
3. Turn on AJ-D455E and Personal Computer (Windows mode).

C. Boot up the Ver. Up Software and Ver. up Procedure

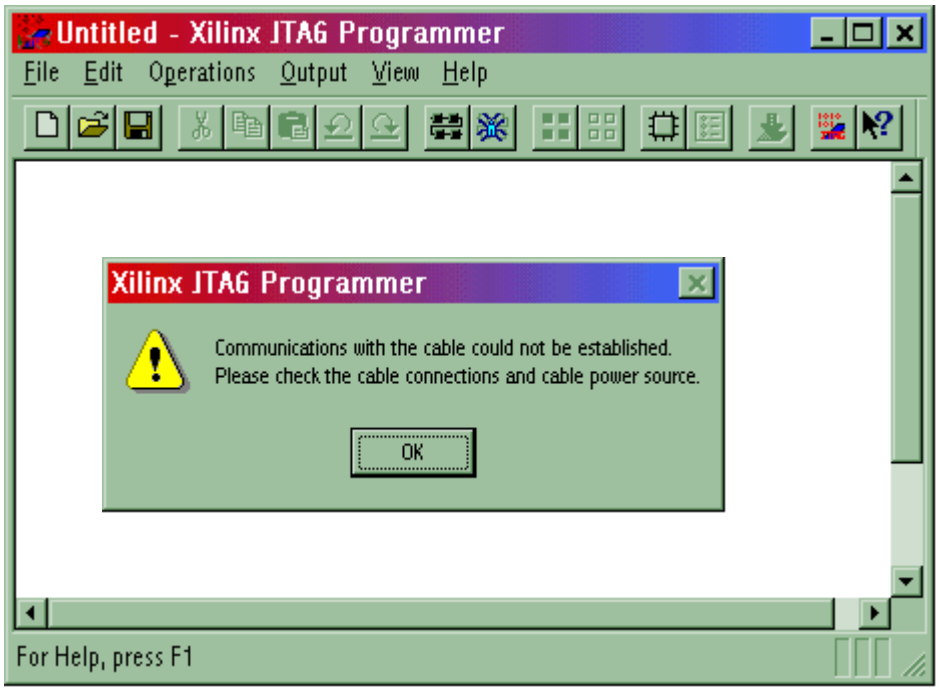
1. After download the program, **"Xilinx CPLD Webpack"** folder is created on windows. Click the start button of windows program **"Xilinx CPLD Webpack"**, then Device Program is boot up and following screen appears.



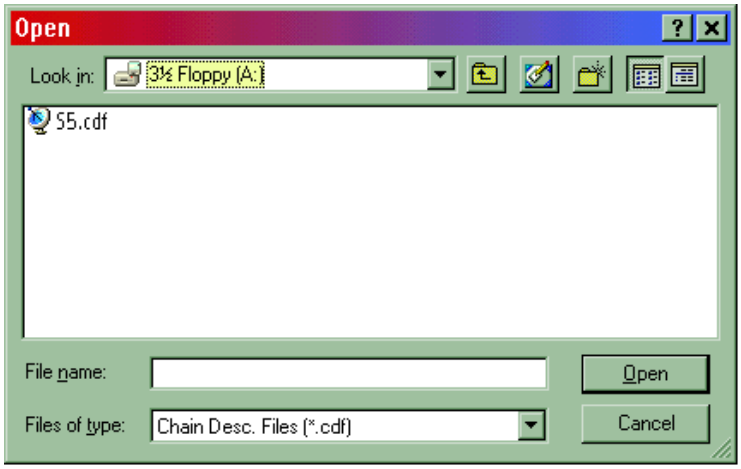
2. Click **“OUTPUT”** on the menu bar and select **“Parallel”** for **“Cable Communication Setup”** (default port is **“lpt1”**).



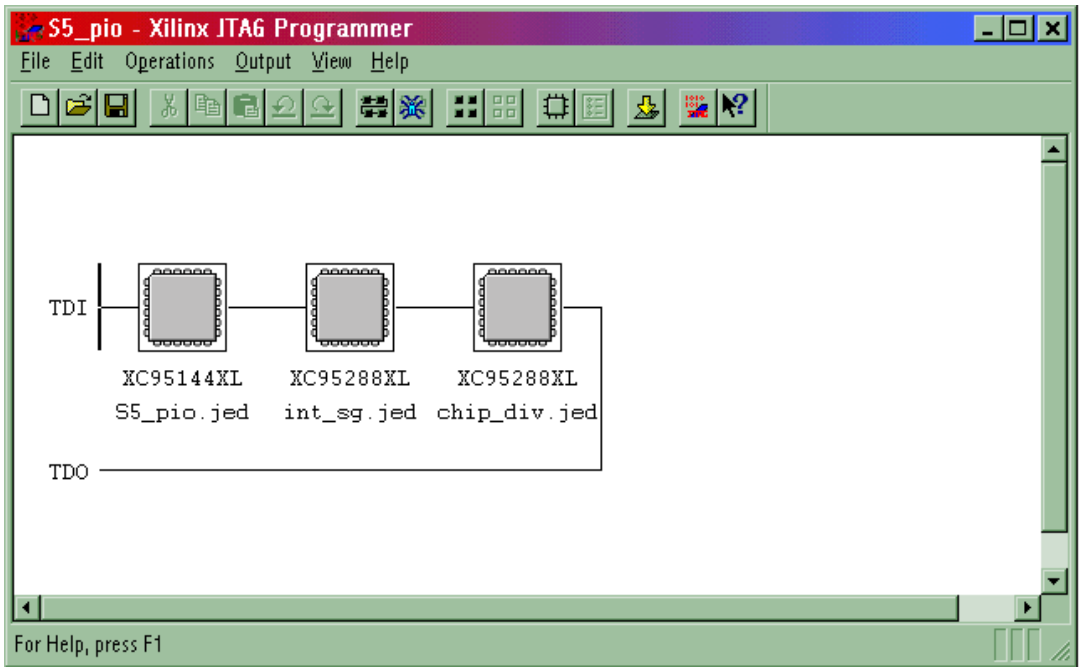
3. If connection is correct, following message appears.



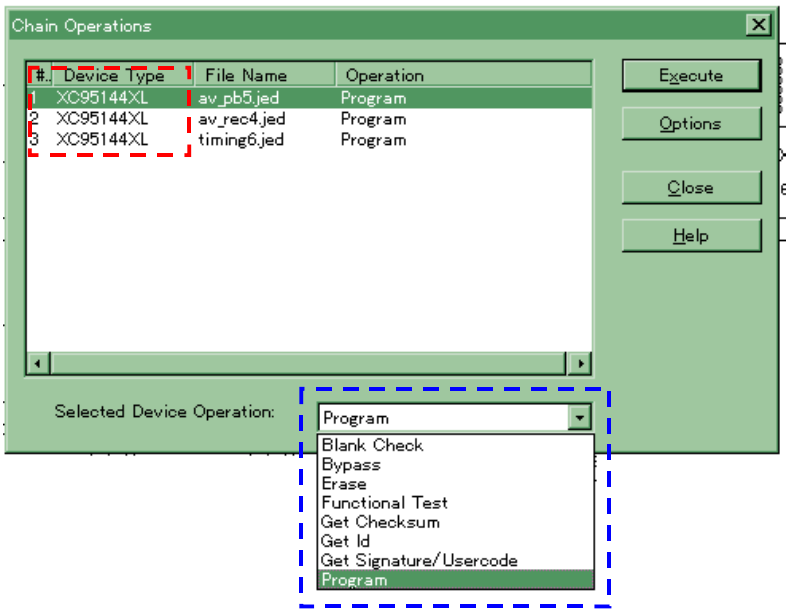
4. Click **“OK”** button.
5. Insert the floppy disk for version up data into A drive.
6. Open the target file. This file called Disk file, because one file can write several CPLDs like a chain.



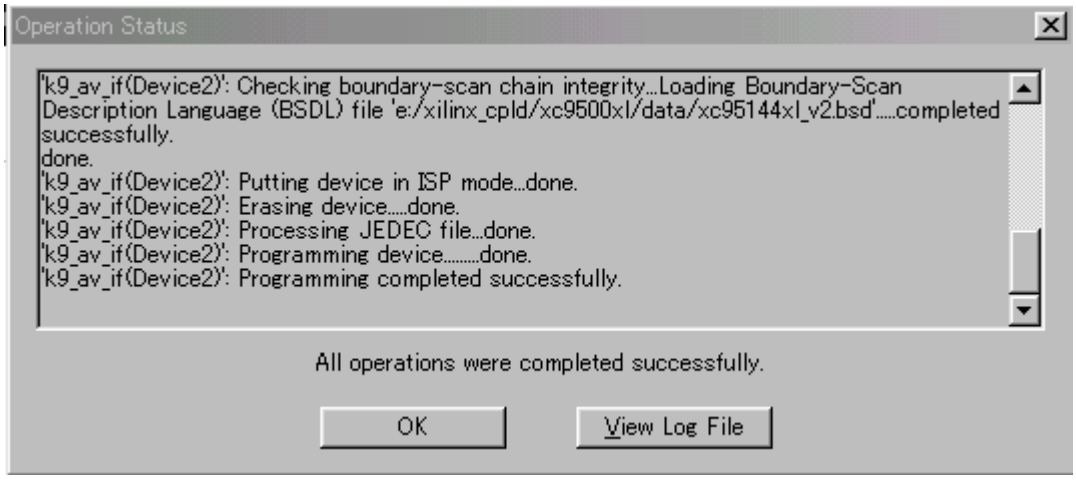
7. Click **"Open"** button, then following screen appears.



8. Then click **"Operations"** on menu bar and select **"Chain Operation"**. Then following screen appears.
9. Select the device from the **"Device Type"** column on the Chain Operation Window.
   Click the **"Selected Device Operation"** and select **"Program"**.
   Perform this procedure to all devices.



10. Click **“Execute”** button.
11. When the following screen with the message of **“All operation were completed successfully.”** appears, data writing is completed.

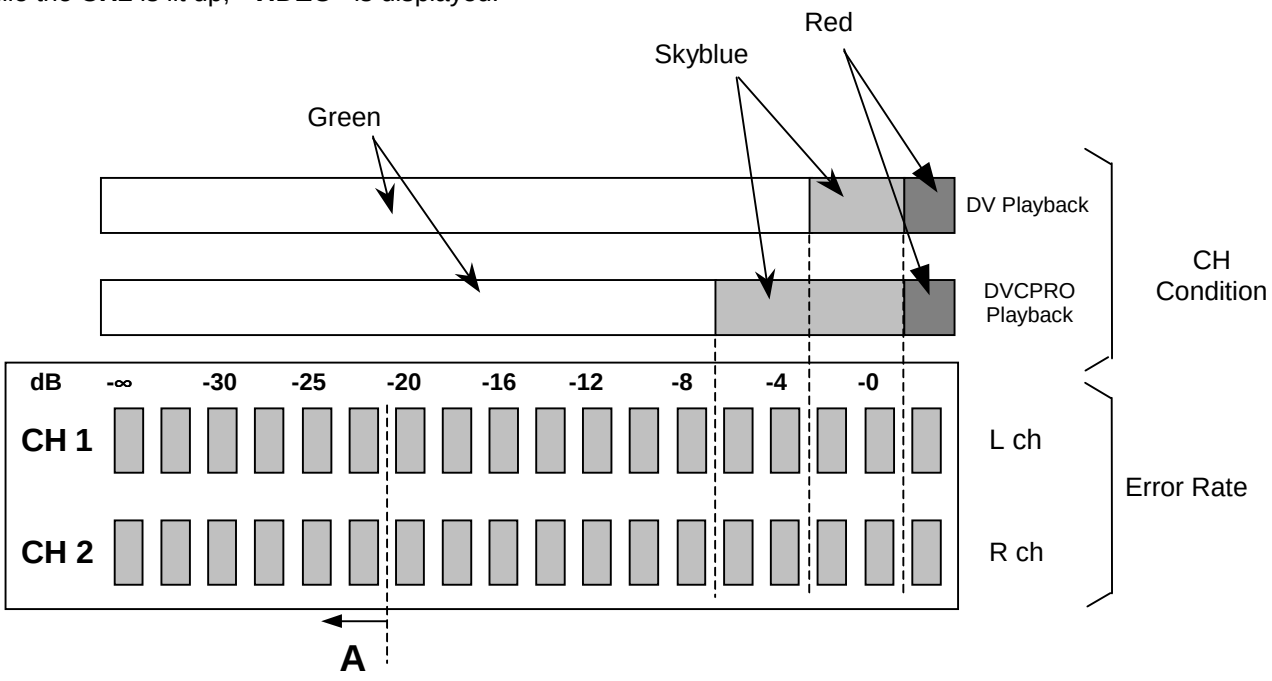


10. Error Rate Display and Confirmation Method

The error rate is displayed on the AUDIO LEVEL METER in Service mode. (When enters in Service menu mode, the AUDIO LEVEL METER changes into the error display mode automatically.)

The error rate of the head selected for the setting of **"B00: RF ADJUST"** in the service menu.
While the **DVCPRO** is played back, the selection is possible when **"C45 PB HEAD"** is selected.
While the **DV** is played back, the selection is possible when **"D45 PB HEAD"** is selected.

Whenever the **"DIAG"** button is pressed, switching between **"AUDIO" and "VIDEO"** is possible.
While the **CH1** is lit up, **"AUDIO"** is displayed.
While the **CH2** is lit up, **"VIDEO"** is displayed.



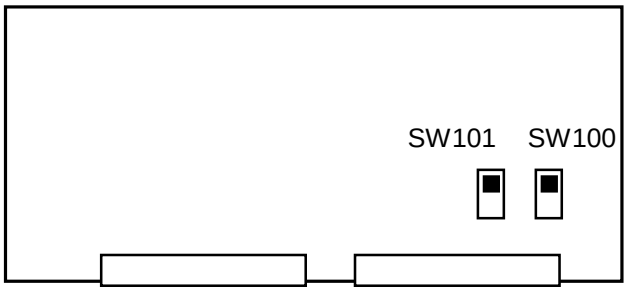
11. Internal Switch Setting Method

The switches setting on each circuit board are shown below.

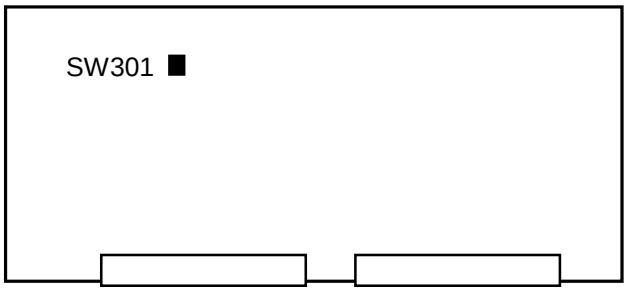
The switches **"Factory use only"** must be set to the **"factory setting"**.

BOARD	Ref. No.	SW	FACTORY SETTING	FEATURE
F1: AUDIO	SW4100	–	HIGH	Audio input impedance setting (600Ω/ HIGH)
	SW4101	–	HIGH	Audio input impedance setting (600Ω/ HIGH)
F6: SYSCON	SW301	1	OFF	Factory use only
		2	OFF	Factory use only

F1: AUDIO circuit board



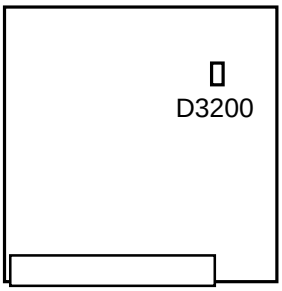
F6: SYSCON circuit board



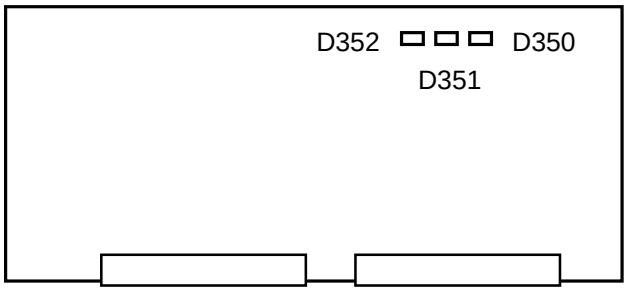
12. Internal LED Indication

BOARD	Ref. No.	FEATURE
F3A: SDI (AJ-YA455P)	D3200	For SDI input detection (light with SDI input/not light with no input)
F7: SERVO	D350	Capstan servo lock: Light with lock/not light with unlock
	D351	Cylinder servo lock: Light with lock/not light with unlock
	D352	For servo microcomputer operation confirmation (flashing with a operating)

F3A: SDI (AJ-YA455P) circuit board



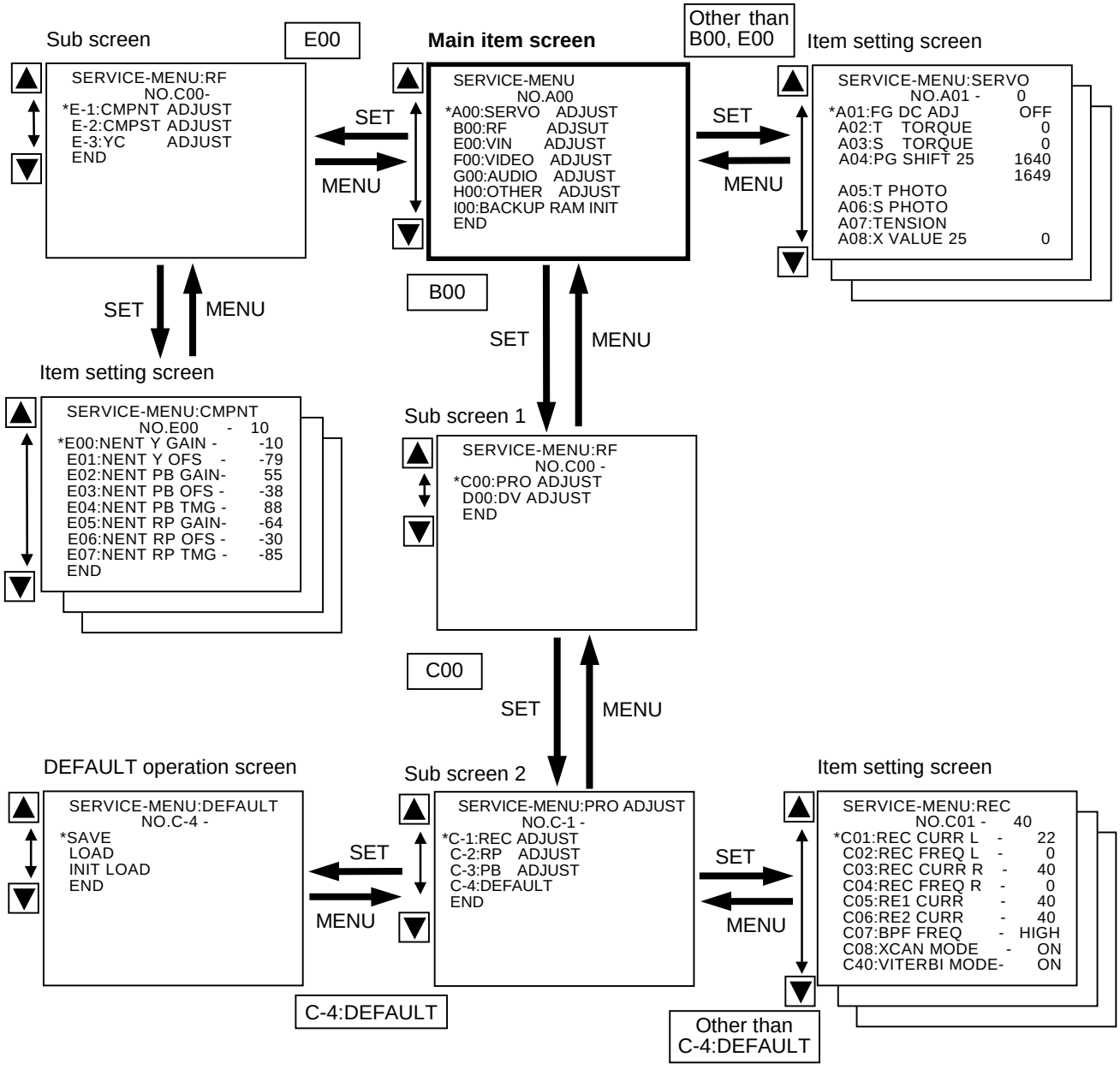
F7: SERVO circuit board



13. Service Menu

13-1. Service Menu Operation Method

1. Confirm that the **"REMOTE/LOCAL"** switch on the front panel is set to the **"LOCAL"**.
2. Press the **"MENU"** button on the front panel to display the **"SETUP-MENU"**.
3. When the **"SETUP-MENU"** is displayed, press the **"MENU"** button while pressing the **"EJECT"** button and the **"STOP"** button. Then, the **"SERVICE-MENU"** is displayed.
4. Move the cursor **"*"** with the **"▲" and "▼"** buttons to select any main item among items from A00 to I00.
5. If any of main items **(A00, F00, G00, H00, I00)** other than the RF adjustment **(B00)** and the V IN adjustment **(E00)** is selected, the item setting screen of the selected main item is displayed by pressing the **"SET"** button on the front panel.
6. For the RF adjustment **(B00)** and the V IN adjustment **(E00)**, select the item on the **Sub Screen**, and then, press the **"SET"** button. Then, the item setting screen of the selected item is displayed.
7. For both of the RF adjustment and the V IN adjustment, the previous screen can be displayed with the **"MENU"** button.
8. The settings can be altered on the item setting screen by moving the cursor **"*"** with the **"▲" and "▼"** buttons. Settings can be altered by pressing the **"◀" and "▶"** buttons. (Setting and operating procedures may be different depending on the selected item. Refer to the details of the service menu.)



13-2. DEFAULT Operation

13-2-1. RF adjustment (B00)

In the RF adjustment, it is possible to save the set values to an area different from the back up area for the present set valng. The saved setting can be loaded as the present setting. This operation is effective only after the loading is completed.

*** Operating procedures**

1. Move the cursor **"*"** onto the **"C-4 : DEFAULT"**.
2. Press the **"SET"** button on the front panel.
3. Press the **"** ▲ **"** and **"** ▼ **"** buttons to move the cursor **"*"** onto the objective item.

   SAVE : The present setting can be saved as the backup value.

   LOAD : The saved backup value can be loaded as the current setting.
   (If the SAVE operation has not been carried out, the initial value will be loaded.)

4. Press the **"SET"** button on the front panel. Then, the selected operation is carried out, and then, the item setting screen is displayed again. When the **"MENU"** button is pressed, the item setting screen is displayed again without any operation carried out.

13-3. Service Menu Contents

A00: SERVO ADJUST

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
A01	FG DC ADJ	0 1 2 3 4 5	OFF OK CAP NG SRL NG TRL NG	Automatic adjustment of the DC offset of the capstan, S/T-Reel FG. This shall be done is in EJECT condition. Operation: 1. The following operation will start when the ← or → button is pressed. 1) S/T-brake OFF 2) Capstan, S/T-Reel is rotation 3) DC offset automatic adjustment will start 2. When the message “OK” appears, adjustment is completed. 3. Release the ← or → button If the following messages are displayed, the adjustment is faulty. CAP-NG Capstan FG adjustment NG SRL-NG S-Reel FG adjustment NG TRL-NG T-Reel FG adjustment NG	Yes	
A02	RL GAIN ADJ	T REEL 0 | 100 | 255 S REEL 0 | 100 | 255	T REEL 0 | 100 | 255 S REEL 0 | 100 | 255	Automatic adjustment of the reel torque of the S/T-Reel. Operation: This shall be done is in EJECT condition. 1. Switch to PLAY mode. 2. Keep pressing the ← or → button. The set value indication will go out and automatic adjustment will start. 3. When the set value is displayed, adjustment is completed. Release the ← or → button.	Yes	
A03	T TORQUE	-128 | 0 | 127	-128 | 0 | 127	Compensation of the T-reel driver offset value This shall be done in EJECT condition. Operation: 1. The following operations will start when the ← or → button is pressed. 1) T-brake OFF 2) Cylinder rotation 3) Loading to the loading completion position 2. Set the value with the search dial. 3. Release the ← or → button when setting is completed. 1) Unloading to the unloading completion position 2) Cylinder stop 3) T-brake ON	Yes	
A04	S TORQUE	-128 | 0 | 127	-128 | 0 | 127	Compensation of the S-reel driver offset value This shall be done in EJECT condition. Operation: 1. The following operations will start when the ← or → button is pressed. 1) S-brake OFF 2) Cylinder rotation 3) Loading to the loading completion position 2. Set the value with the search dial. 3. Release the ← or → button when setting is completed. 1) Unloading to the unloading completion position 2) Cylinder stop 3) S-brake ON	Yes	
A05	PG SHIFT 25	RISE 0 | 1649 | 4095 FALL 0 | 1645 | 4095	RISE 0 | 1649 | 4095 FALL 0 | 1645 | 4095	Alignment tape is used for PG mono-multi automatic adjustment. Operation: 1. Switch to PLAY mode. 2. Keep pressing the ← or → button. The set value indication will go out and automatic adjustment will start. 3. When the set value is displayed, adjustment is completed. Release the ← or → button.	Yes	

Item		Set value		Setting contents and outline function explanation	BACK-UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
A06	T PHOTO		Voltage value 0.0V | 3.3V	Indication of the detection voltage of the photo sensor for beginning and end detection on the T-side This is used for adjustment of the sensitivity of the photosensor. Operation 1. Switch to EJECT mode. 2. Select the item. 3. The voltage value will be displayed. 4. Insert the cassette for sensitivity adjustment. Stop will be performed at the cassette DOWN position. 5. Adjust the sensitivity with the VR on the MECHA_IF. 6. The cassette will be ejected when the cursor is moved to an item other than A05: T PHOTO or A06: S PHOTO.	No	
A07	S PHOTO		Voltage value 0.0V | 3.3V	Indication of the detection voltage of the photo sensor for beginning and end detection on the S-side This is used for adjustment of the sensitivity of the photosensor. Operation: 1. Switch to EJECT mode. 2. Select the item. 3. The voltage value will be displayed. 4. Insert a cassette for sensitivity adjustment. The cassette will stop at the DOWN position. 5. Adjust the sensitivity with the VR on the MECHA_IF. 6. The cassette will be ejected when the cursor is moved to an item other than A05: T PHOTO or A06: S PHOTO.	No	
A08	TENSION	0 1	Non-display ON	Loading operation for tension offset adjustment Operation: 1. Switch to EJECT mode. 2. Switch the set value to ON. Loading will be performed to the loading completion position. 3. Unloading will be performed when the set value is switched to OFF or when the cursor is moved to another item.	No	
A09	X VALUE 25	-128 | 0 | 127	-128 | 0 | 127	Electrical fine adjustment of the X-value Operation: 1. Switch to PLAY mode. 2. Keep pressing the ← and → button. The set value display will go out and automatic adjustment will start. 3. Adjustment is completed when the set value is displayed. Release the ← and → button.	Yes	
A10	PB GAIN 25	-128 | 0	-128 | 0	Adjustment of the ATF prefilter gain of the PB head	Yes	
A11	PB LIN 25	0 1	Non-display ON	Adjustment of the LISTA linearity of the PB head	No	
A12	RP GAIN 25	-128 | 0	-128 | 0	Adjustment of the ATF prefilter gain of the PBR head	Yes	
A13	RP LIN 25	0 1	Non-display ON	Adjustment of the LISTA linearity of the RP head	No	
A14	RP GAIN DV	-128 | 0	-128 | 0	Adjustment of the ATF prefilter gain of the RP head (For DV, this can work only when a DV cassette is inserted.)	Yes	
A15	RP LIN DV	0 1	Non-display ON	Adjustment of the LISTA linearity of the RP head (For DV, this can work only when a DV cassette is inserted.)	No	
A16	TRK VAL 25	-128 | 0 | 127	-128 | 0 | 127	Set the CTL tracking offset value.	No	
A17	REC DATA SEL	0 1	NORMAL CW	Select the Rec data 0: NORMAL DATA 1: CW signal	No	

B00: RF ADJUST

RF ADJUST has a subscreen composition, and there is a hierarchical structure for each format.

RF ADJUST subscreen

Item		Item contents
No.	SUPER DISP.	
C00	PRO ADJUST	Adjustment for DVCPRO (25 Mbps)
D00	DV ADJUST	Adjustment for DV • Insert a DV cassette for adjustment.

C: RRO ADJUST subscreen

Item		Item contents
No.	SUPER DISP.	
C-1	REC ADJUST	Adjustment of the recording system for DVCPRO (25 Mbps)
C-2	RP ADJUST	Adjustment of the playback system (RP head) for DVCPRO (25 Mbps)
C-3	PB ADJUST	Adjustment of the playback system (PB head) for DVCPRO (25 Mbps)
C-4	DEFAULT	LOAD/SAVE of the factory default adjustment values/initial values LOAD operation • Perform operation in regard to the adjustment values for DVCPRO (25 Mbps). • Operation is effective only after completion of loading. Operation: 1. Move the cursor to C-4: DEFAULT. 2. Press the "▲" and "▼" button and move the cursor to the desired operation item. SAVE ... Save the present set values as the factory default values. LOAD ... Load the saved factory default values as the present set values. (When SAVE operation has not been performed, the initial values will be loaded.) INIT LOAD ... Load the initial values as the present set values. 3. When the SET button is pressed, the selected operation will be performed and it will return to the item setting screen. When the MENU button is pressed, no operation will be performed and it will return the item setting screen.

D: DV ADJUST subscreen

Item		Item contents
No.	SUPER DISP.	
D-1	REC ADJUST	Adjustment of the recording system for DVCPRO
D-2	RP ADJUST	Adjustment of the playback system (RP head) for DVCPRO
D-4	DEFAULT	LOAD/SAVE of the factory default adjustment values/initial values LOAD operation • Perform operation in regard to the adjustment values for DVCPRO. • Operation is effective only after completion of loading. Operation: 1. Move the cursor to C-4: DEFAULT. 2. Press the "▲" and "▼" button and move the cursor to the desired operation item. SAVE ... Save the present set values as the factory default values. LOAD ... Load the saved factory default values as the present set values. (When SAVE operation has not been performed, the initial values will be loaded.) INIT LOAD ... Load the initial values as the present set values. 3. When the SET button is pressed, the selected operation will be performed and it will return to the item setting screen. When the MENU button is pressed, no operation will be performed and it will return to the item setting screen.

C-1: REC ADJUST

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
C01 D01	REC CURR L	-128 | 40 | 127	-128 | 40 | 127	Adjustment of the RP L head recording current	Yes	
C02 D02	REC FREQ L	-128 | 0 | 127	-128 | 0 | 127	Adjustment of the RP L head recording f characteristic	Yes	
C03 D03	REC CURR R	-128 | 40 | 127	-128 | 40 | 127	Adjustment of the RP R head recording current	Yes	
C04 D04	REC FREQ R	-128 | 0 | 127	-128 | 0 | 127	Adjustment of the RP R head recording f characteristic	Yes	
C05 D05	RE1 CURR	-128 | 40 | 127	-128 | 40 | 127	Adjustment of the RE1 head erase current	Yes	
C06 D06	RE2 CURR	-128 | 40 | 127	-128 | 40 | 127	Adjustment of the RE2 head erase current	Yes	
C07 D07	BPF FREQ	0 1	HIGH LOW	BPF band setting for recording adjustment • The setting is held until exit from PRO ADJUST, DV ADJUST.	No	
C08 D08	XCAN MODE	0 1	OFF ON	Crosstalk canceler ON/OFF setting • The setting is held until exit from RRO ADJUST, DV ADJUST.	No	

C-2: RP ADJUST / C-3: PB ADJUST

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
C01 D01	RF PHS L	-128 | 20 | 127	-128 | 20 | 127	Adjustment of the Lch head playback phase	Yes	
C02 D02	RF PHS R	-128 | 20 | 127	-128 | 20 | 127	Adjustment of the Rch head playback phase	Yes	
C03 D03	RF MAG L	-128 | -30 | 127	-128 | -30 | 127	Adjustment of the Lch head playback amplitude	Yes	
C04 D04	RF MAG R	-128 | -30 | 127	-128 | -30 | 127	Adjustment of the Rch head playback amplitude	Yes	

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
C05 D05	ENV L	0 | 255	0 | 255	Playback signal envelope level read-out value averaged for each track of each head ENV L: Lch head ENV R: Rch head Averaging is performed at 8 points in the track, and the newest track value for which averaging has been completed at the time when read-out is started will be read out. • Read-out is possible only at the time of PLAY and REC. • The value is held until exit from PRO ADJUST, DV ADJUST. Operation: • At the time of C32, D32: IC READ = SINGLE Read-out and display are performed each time the SET button is pressed. • At the time of C32, D32: IC READ = CONT Read-out and display are performed once every second.	No	
C06 D06	ENV R	0 | 255	0 | 255		No	
C07 D07	AEQ SPD	0 1 2 3	0 1 2 3	The control response speed for the adaptive equalization filter is set in four levels. The sensitivity is highest with 0 and lowest with 3.	Yes	
C08 D08	HLD SEN	0 1 2 3	0 1 2 3	The detection sensitivity for detection of changes in the relative speed is set in four levels. The sensitivity is highest with 0 and lowest with 3.	Yes	
C09 D09	FLT SEN	0 1 2 3	0 1 2 3	The detection sensitivity for the fault detection function is set in four levels. A fault status is detected when a status where a normal signal can not be detected consecutively for 5 tracks over the following track values. 0: 1/2 1: 3/4 2: 7/8 3: 15/16	Yes	
C10 D10	PLLREV	0 1	SLOW FAST	The compensation speed in PLL frequency compensation mode is set in two levels	Yes	
C11 D11	PLLPHS	0 | 7 | 31	0 | 7 | 31	In the PLL response speed setting, mainly the phase pull-in speed is controlled. The response speed becomes faster with larger values.	Yes	
C12 D12	REV LEV	0 1 2 3	0 1 2 3	The strength of the frequency pull-in operation of the PLL phase comparison characteristic expansion function is controlled in four levels. The action is weakest with 0 and strongest with 3. When the data acquisition ratio at the time of special playback is bad, it can be improved by controlling this parameter.	Yes	
C13 D13	PLL FRQ	C13 0 | 7 | 31	C13 0 | 7 | 31	The setting of the PLL response speed controls mainly the frequency pull-in speed. The response becomes faster with larger values.	Yes	
		D13 0 | 1 | 31	D13 0 | 1 | 31			
C14 D14	MONI LIM	0 | 46 | 127	0 | 46 | 127	Setting of the frequency offset tolerance value for PLL frequency monitor control The actual tolerance range in regard to the reference frequency is (set value)/10.24%.	Yes	
C15 D15	TH EYE	0 | 110 | 255	0 | 110 | 255	Setting of the threshold value for judging the signal quality after equalization The judgment result for the signal quality is used for adaptive equalization, PLL, fault detection function, and other control.	Yes	

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
C16 D16	TH ULK	0 | 92 | 255	0 | 92 | 255	Setting of the threshold value for judging the signal quality after equalization The judgment result for the signal quality is used for adaptive equalization, PLL, fault detection function, and other control.	Yes	
C17 D17	TH ENV	0 | 16 | 255	0 | 16 | 255	Setting of the threshold value for the envelope detection signal The envelope detection signal is used for adaptive equalization filter, PLL, and AGC hold control.	Yes	
C18 D18	AGC SPEED	0 1 2 3	0 1 2 3	Setting of the AGC response speed	Yes	
C19 D19	VCO	0 | 512 | 1023	0 | 512 | 1023	Setting of the initial value of the output voltage adjusting the VCO center frequency Adjustment is performed automatically in standby mode, but the time required for automatic adjustment can be reduced by setting this value in advance to a suitable value. The automatically adjusted value is read out and set. • Read-out is possible only at the time of EJECT, STANDBY-OFF. Operation: • At the time of C32, D32: IC READ = SINGLE Read-out and display are performed each time the SET button is pressed. • At the time of C32, D32: IC READ = CONT Read-out and display are performed once every second.	Yes	
C20 D20	T L 3A	-31 | 0 | 31	-31 | 0 | 31	The initial values for six of the seven tap coefficients of the adaptive equalization filter, excluding the fixed center tap, are set for the Lch head. The tap coefficient values after adaptive equalization filter convergence at the time of standard tape playback are read out and set. • Read-out is possible only at the time of PLAY, REC. Operation: • At the time of C32, D32: IC READ = SINGLE Read-out and display are performed each time the SET button is pressed. • At the time of C32, D32: IC READ = CONT Read-out and display are performed once every second.	Yes	
C21 D21	T L 2A	-31 | 0 | 31	-31 | 0 | 31		Yes	
C22 D22	T L 1A	-80 | -32 | -4	-80 | -32 | -4		Yes	
C23 D23	T L 1B	-80 | -32 | -4	-80 | -32 | -4		Yes	
C24 D24	T L 2B	-31 | 0 | 31	-31 | 0 | 31		Yes	
C25 D25	T L 3B	-31 | 0 | 31	-31 | 0 | 31		Yes	

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
C26 D26	T R 3A	-31 | 0 | 31	-31 | 0 | 31	The initial values for six of the seven tap coefficients of the adaptive equalization filter, excluding the fixed center tap, are set for the Rch head. The tap coefficient values after adaptive equalization filter convergence at the time of standard tape playback are read out and set. • Read-out is possible only at the time of PLAY, REC. Operation: • At the time of C32, D32: IC READ = SINGLE Read-out and display are performed each time the SET button is pressed. • At the time of C32, D32: IC READ = CONT Read-out and display are performed once every second.	Yes	
C27 D27	T R 2A	-31 | 0 | 31	-31 | 0 | 31		Yes	
C28 D28	T R 1A	-80 | -32 | -4	-80 | -32 | -4		Yes	
C29 D29	T R 1B	-80 | -32 | -4	-80 | -32 | -4		Yes	
C30 D30	T R 2B	-31 | 0 | 31	-31 | 0 | 31		Yes	
C31 D31	T R 3B	-31 | 0 | 31	-31 | 0 | 31		Yes	
C32 D32	IC READ	0 1 2	OFF SINGLE CONT	The following data are read out from the EQ100 IC. However, there are limitations according to the mode. Data which can be read-out only at the time of PLAY, REC ENV L ENV R T L 3A T L 2A T L 1A T L 1B T L 2B T L 3B T R 3A T R 2A T R 1A T R 1B T R 2B T R 3B Data which can be read-out only at the time of EJECT, STANDBY-OFF VCO 0: No read-out 1: Read-out each time the SET button is pressed. 2: Read-out is performed once every second. • The setting is held until PRO ADJUST, DV ADJUST is left.	No	

C-1: REC ADJUST / C-2: RP ADJUST / C-3: PB ADJUST COMMON ITEM

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
C40 D40	VITERBI MODE	0 1	OFF ON	Setting whether Viterbi decoding is to be used for detection of playback data or not • The setting is held until exit from PRO ADJUST, DV ADJUST.	No	
C41 D41	AEQ MODE	0 1	OFF ON	Setting of the adaptive function of the adaptive equalization filter • The setting is held until exit from PRO ADJUST, DV ADJUST.	No	
C42 D42	ECC MODE	0 1 2	ALL ON OT OFF AL OFF	Setting of error correction control 0: Error correction for INNER and OUTER. 1: Error correction only for INNER, but not for OUTER. 2: No error correction for INNER and OUTER. • The setting is held until exit from PRO ADJUST, DV ADJUST.	No	
C43 D43	CONCEAL MOD	0 1	ON OFF	Setting of error revision control 0: Error revision is performed. 1: Error revision is not performed. • The setting is held until exit from PRO ADJUST, DV ADJUST.	No	
C44 D44	ERROR MODE	0 1	FAST SLOW	Setting of the error sampling time 0: FAST mode 1: SLOW mode • The setting is held until exit from PRO ADJUST, DV ADJUST.	No	
C45 D45	PB HEAD	0 1	PB RP	• Setting of Playback head 0: PB head 1: RP head The setting is held until exit from PRO ADJUST, DV ADJUST.	No	
C46 D46	REC DATA	0 1	NORMAL CW	• Select the Rec Data 0: NOMAL Data 1: CW Signal The setting is held until exit from PRO ADJUST,DV ADJUST.	No	
C47 D47	TRACKING MOD	0 1	ATF CTL	Tracking mode setting 0: ATF tracking 1: CTL tracking • The setting is held until exit from PRO ADJUST, DV ADJUST.	No	
C48 D48	TRACKING VAL	-128 | 0 | 127	-128 | 0 | 127	Offset value setting for CTL tracking • Effective only at the time of TRACKING MOD = CTL. • The setting is held until exit from PRO ADJUST, DV ADJUST.	No	

E00: VIN ADJUST

VIN ADJUST has a subscreen composition, and there is a hierarchical structure for each format.

VIN ADJUST subscreen

Item		Item contents
No.	SUPER DISP.	
E-1	CMPNT ADJUST	Adjustment to component input
E-2	CMPST ADJUST	Adjustment of composite input
E-3	YC ADJUST	Adjustment of S-VIDEO (Y/C) input

E-1: CMPNT ADJUST

Item		Set value		Setting contents and outline function explanation	BACK-UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
E00	NENT Y GAIN	-128 | -10 | 127	-128 | -10 | 127	Adjustment of component Y level	Yes	
E01	NENT Y OFS	-128 | -79 | 127	-128 | -79 | 127	Adjustment of component Y offset level	Yes	
E02	NENT PB GAIN	-128 | 55 | 127	-128 | 55 | 127	Adjustment of component Pb level	Yes	
E03	NENT PB OFS	-128 | -38 | 127	-128 | -38 | 127	Adjustment of component Pb offset level	Yes	
E04	NENT PB TMG	-50 | 0 | 49	-50 | 0 | 49	Adjustment of component Pb timing	Yes	
E05	NENT PR GAIN	-128 | 64 | 127	-128 | 64 | 127	Adjustment of component Pr level	Yes	
E06	NENT PR OFS	-128 | -30 | 127	-128 | -30 | 127	Adjustment of component Pr offset level	Yes	
E07	NENT PR TMG	-50 | 0 | 49	-50 | 0 | 49	Adjustment of component Pr timing	Yes	

E-2: CMPST ADJUST

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
E00	SITE Y GAIN	-128 | 5 | 127	-128 | 5 | 127	Adjustment of composite Y level	Yes	
E01	SITE Y OFS	-128 | -81 | 127	-128 | -81 | 127	Adjustment of composite Y offset level	Yes	
E02	SITE PB GAIN	-128 | 18 | 127	-128 | 18 | 127	Adjustment of composite Pb level	Yes	
E03	SITE PB OFS	-128 | -38 | 127	-128 | -38 | 127	Adjustment of composite Pb offset level	Yes	
E04	SITE PB TMG	-50 | 0 | 49	-50 | 0 | 49	Adjustment of composite Pb timing	Yes	
E05	SITE PR GAIN	-128 | 75 | 127	-128 | 75 | 127	Adjustment of composite Pr level	Yes	
E06	SITE PR OFS	-128 | -31 | 127	-128 | -31 | 127	Adjustment of composite Pr offset level	Yes	
E07	SITE PR TMG	-50 | 0 | 49	-50 | 0 | 49	Adjustment of composite Pr timing	Yes	
E08	SITE CAXIS	-128 | -27 | 127	-128 | -27 | 127	Adjustment of composite vector phase	Yes	

E-3: Y/C ADJUST

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
E00	YC Y GAIN	-128 | -25 | 127	-128 | -25 | 127	Adjustment of the Y level for S-VIDEO (YC)	Yes	
E01	YC Y OFS	-128 | -79 | 127	-128 | -79 | 127	Adjustment of the Y offset for S-VIDEO (YC)	Yes	
E02	YC PB GAIN	-128 | -2 | 127	-128 | -2 | 127	Adjustment of the Pb level for S-VIDEO (YC)	Yes	
E03	YC PB OFS	-128 | -37 | 127	-128 | -37 | 127	Adjustment of the Pb offset level for S-VIDEO (YC)	Yes	
E04	YC PB TMG	-50 | 0 | 49	-50 | 0 | 49	Adjustment of the Pb timing for S-VIDEO (YC)	Yes	
E05	YC PR GAIN	-128 | 45 | 127	-128 | 45 | 127	Adjustment of the Pr level for S-VIDEO (YC)	Yes	
E06	YC PR OFS	-128 | -30 | 127	-128 | -30 | 127	Adjustment of the Pr offset level for S-VIDEO (YC)	Yes	
E07	YC PR TMG	-50 | 0 | 49	-50 | 0 | 49	Adjustment of the Pr timing for S-VIDEO (YC)	Yes	
E08	YC CAXIS	-128 | -27 | 127	-128 | -27 | 127	Adjustment of the vector phase for S-VIDEO (YC)	Yes	

F00: VIDEO ADJUST

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
F03	VIDEO MUTE	0 1	NORMAL MUTE	Select whether the VIDEO output is to be made gray or not 0:Normal output 1:Forced gray output	No	
F06	EE TEST MODE	0 1	NORMAL DCI RT	EE check for the entire signal processing system 0:Bus EE (EE1) 1:Full EE (EE2)	No	
F11	V SETUP	0 1	OFF ON	Switching of effective/not effective for SETUP MENU 613: SETUP 0:SETUP-MENU 613: SETUP is not displayed and THRU is sent forcibly to AV. However, the backup value does not change. (Shipping setting for T) 1:SETUP-MENU 613: SETUP is displayed and the set value is sent to AV. (Shipping setting for P, E, EG)	Yes	
F17	GAP COUNT	0 | 40 | 64	0 | 40 | 64	Setting of the GAP count for DVPRO I/F	Yes	

G00: AUDIO ADJUST

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
G01	REF_LEVEL1	0 1 2	FS-20 FS-18 FS-12	Selection of the audio I/O reference level 0: Full scale -20 dB 1: Full scale -18 dB 2: Full scale -12 dB • Change of the set value is possible only when G02: REF_LEVEL2 = 0 dB has been set.	Yes	
G02	REF_LEVEL2	0 1	0dB -3dB	Selection of the SETUP MENU set value for switching of the audio I/O reference level. 700:CH1 IN LV 703:CH1 OUT LV 701:CH2 IN LV 704:CH2 OUT LV 0: 4 dB/0 dB/-20dB/-60dB switching is possible. 1: Fixed to -3 dB • Set value change is possible only when G01:REF LEVEL 1 = FS-18 has been set.	Yes	
G03	REF LV INI	0 1	0dB 4dB	Setting of the factory default value of the SETUP MENU for audio I/O reference level switching. 700:CH1 IN LV 703:CH1 OUT LV 701:CH2 IN LV 704:CH2 OUT LV 0: 0 dB (Shipping setting for oversea) 1: 4 dB (Shipping setting for JAPAN)	Yes	
G08	AUD PB MODEI	0 1	MODE1 MODE2	Setting of audio playback mode 0: NOMAL Mode 1: Setting is carried out when directly editing the jointed tape on which recording was performed with a cam coder or playing back the edited tape.	Yes	
G09	LINE OUT CUE	0 1	OFF ON	Setting whether “CH1/CH2 OUTPUT terminal” can be selected is forcibly as the CUE output signal.	Yes	

H00: OTHER ADJUST

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
H01	STILL LIMIT	0 1	2 min 6 min	Set the maximum value of the "SETUP-MENU 400 : STILL TIMER". Decide whether the still timer should be reset when the STANDBY-ON command is received during the STOP mode. 0:2 min/The still timer should not be reset 1:6 min/The still timer should be reset	Yes	
H02	LTC OUT SEL	0 1	N-STOP STOP	Selection of TC output according to the mode or not 0: Output always, independent of the mode 1: ON/OFF switching of the TC output according to the VTR mode. However, the TC output always is ON at the time of SETUP MENU 317: AUD MEM MODE = AMU_X, AMU_VO.	Yes	
H03	SYSTEM TYPE	0 1	TYPE 1 TYPE 2	Selection whether 2.3x speed is added to SHTL mode or not 0: No 2.3 speed 1: 2.3 speed exists	Yes	

H02: TC output by the mode at the time of LTC OUT SEL = STOP setting

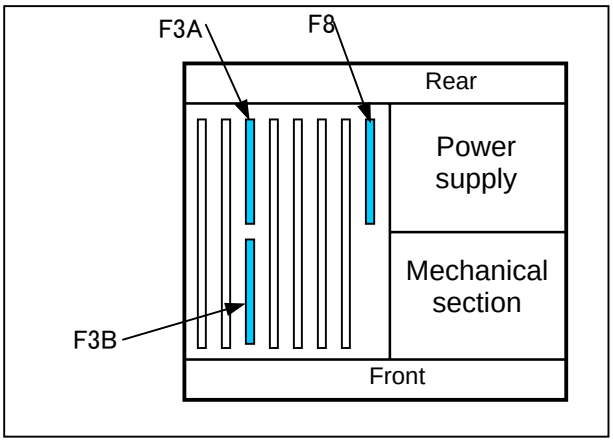
TC INT/EXT	Mode	VV / EE	TC output
INT	EJECT STOP STANDBY OFF JOG/VAR/SHTL STILL	—	OFF
	Others	—	ON
EXT	EJECT STOP STANDBY OFF JOG/VAR/SHTL STILL	VV (including BLACK, GLAY of EJECT)	OFF
		EE	ON
	Others	—	ON

13-4. SET-UP Menu Initialization

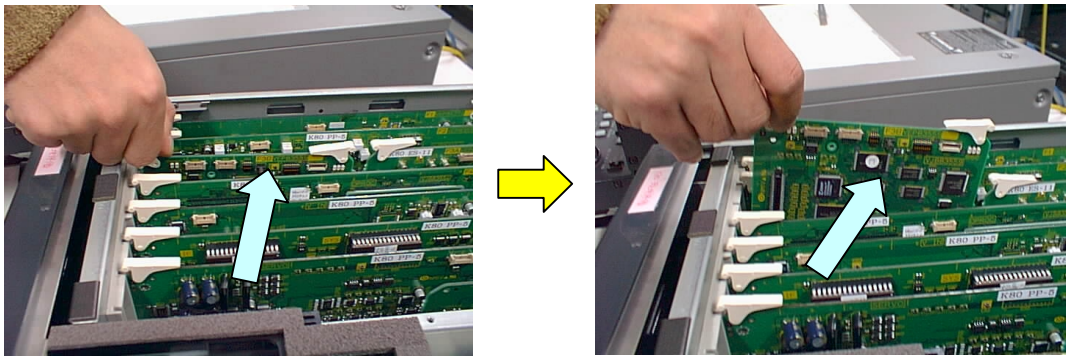
1. In the EJECT mode, press the “MENU” button to open the SETUP menu.
2. Keep and press the “EJECT” button, and press the “RESET” button more than 2 seconds.
3. Close the menu automaticaly, then the SET-UP menu data (SYSTEM, USER1-5) is initialized.

14. Notes on Removal of PCB F3A, F3B, F8

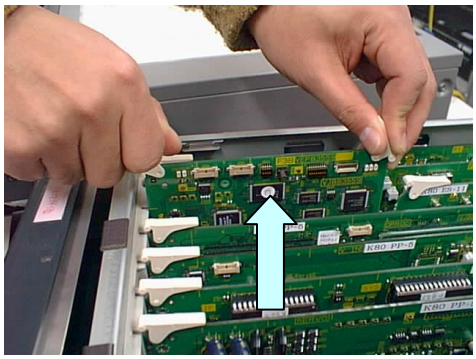
In AJ-D455E, the H-PCBs (half-size PCBs) are inserted in the F-PCB (full-size PCB) slots. Pulling of the three PCBs, F3A (SDI option), F3B (DIF option), and F8 (RF), with only one hand may cause bend on the pin of the PCB connector. When removing them, be sure to pull them straight upward with your both hands.



Bad removal (Pulling up PCB slantingly with only one hand)



Good removal (Pulling up PCB straight with both hands)



15. Auto OFF mode

In case AUTO OFF Error is occurred, error number is flashed on counter display of front panel and error message appear on the monitor screen(superimpose on VIDEO 3 OUT).
The number of below table indicates as priority display of error number and message, when some error occurred at the same time. Error message indicates under error number on below table.

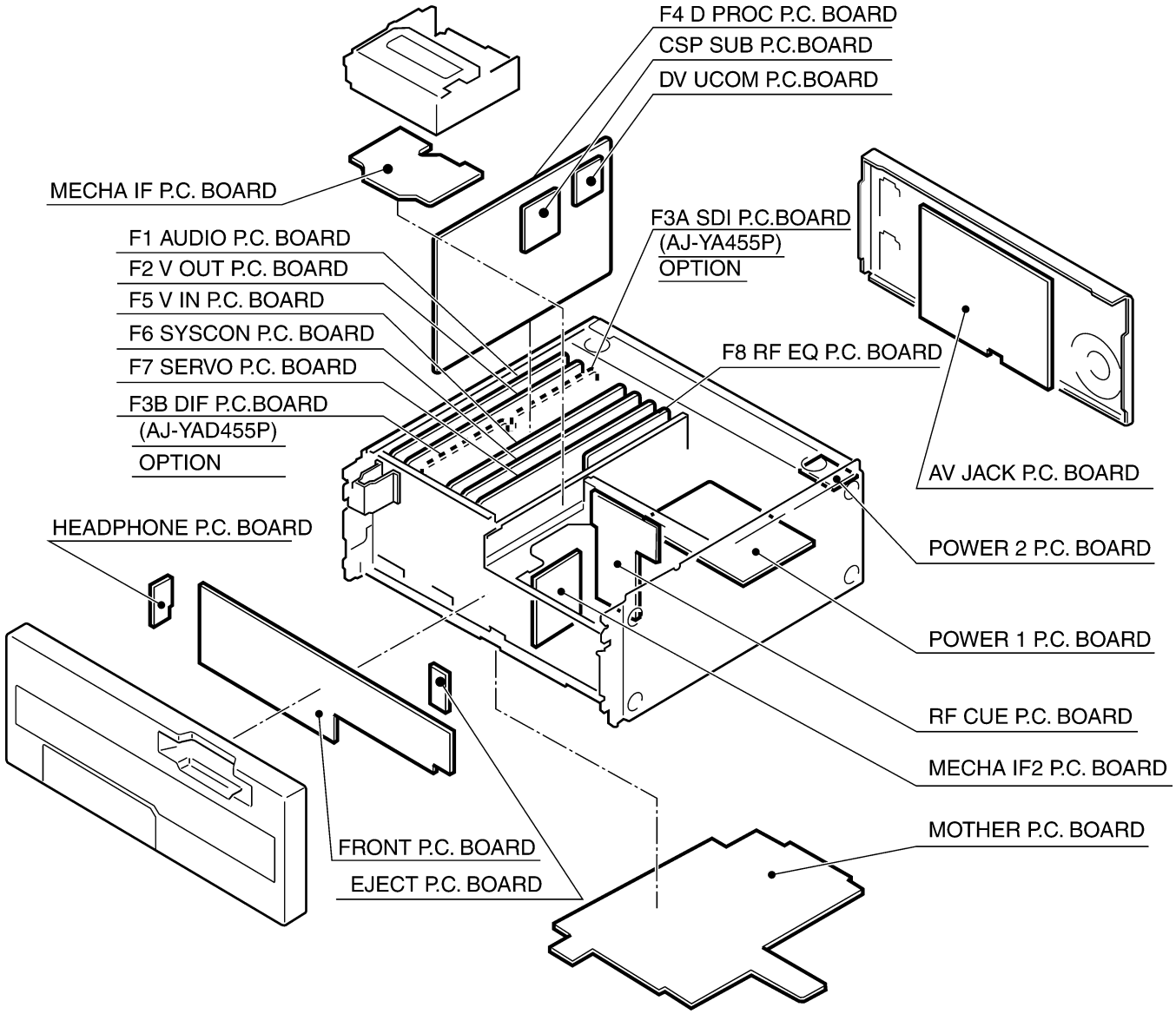
ERR No.	Display (20 characters)	Contents	VTR Operation	Detection Place	Reset Condition
E-29	FRONT LOAD MOTOR	The cassette does not move up even when 6 seconds have elapsed since the VTR was transferred to the eject mode. **<Note>** After inserting the cassette, the unit will go to EJECT mode if cassette is not loaded after six seconds.	STOP	SYSCON	POWER OFF → ON
E-31	LOADING MOTOR	The unloading operation is not completed within 6 seconds. **<Note>** The unit will go to EJECT mode (unloading) if the loading operation is not completed within six seconds.	STOP	SYSCON	POWER OFF → ON
E-35	SERVO CONTORL ERR	There is no response from the servo microcomputer for 1 or more seconds. **<Note>** System control circuit sends COMM_TEST signal to Servo circuit and Servo circuit returns COMM_TEST_RET signal. If this signal is not returned within 1 seconds, “AUTO OFF” process is produced and Servo is reset for 50 ms.	STOP	SYSCON	POWER OFF → ON
E-36	SERVO ERROR	Only the servo microcomputer was reset in an instantaneous power failure.	STOP	SYSCON	POWER OFF → ON
E-37	SERVO COMM ERROR	The servo microcomputer does not follow the instructions of the system control microcomputer even when 10 seconds have elapsed.	STOP	SYSCON	POWER OFF → ON
E-38	SERVO FG ERROR	When power on the VTR and set EJECT mode, execute Reel & Capstan FG offset adjustment automatically. If it is finished abnormally, appear this error number.	STOP	SERVO	POWER OFF → ON
E-51	FRONT LOAD ERROR	The take-up reel has been rotating idly for a fixed period of time while the start/end processing operation during loading (half position) is being performed.	STOP	SERVO	POWER OFF → ON
E-52	W-UP REEL NOT ROTA	After the cassette has been inserted, the tape take-up reel has not wound up the tape while the total tape amount is not detected and while the tape is travelling.	STOP	SERVO	POWER OFF → ON
E-53	WINDUP ERROR	After the total tape amount has been detected, the amount of tape wound up on the take-up reel and the amount of tape supplied by the supply reel differ to an abnormal extent (more than 2cm) while the tape is travelling.	STOP	SERVO	POWER OFF → ON
E-55	UNLOAD ERROR	The tape has not been wound up during unloading.	STOP	SERVO	POWER OFF → ON
E-57	S-FF/REW TIME/OVER	The start/end processing operation is not completed even after 10 or more seconds have elapsed.	STOP	SERVO	POWER OFF → ON
E-59	DRUM ROTA TOO SLOW	The cylinder motor speed is abnormally low. In the cylinder on mode, cylinder PG interval is more than 1.5 ms for 5 seconds or cylinder PG is not detected for 1 seconds.	STOP	SERVO	POWER OFF → ON

No.	Display (20 characters)	Contents	VTR Operation	Detection Place	Reset Condition
E-60	DRUM ROTA TOO FAST	The cylinder motor speed is abnormally high. PG interval is less than 3ms for 2seconds.	STOP	SERVO	POWER OFF → ON
E-61	CAP ROTA TOO SLOW	The capstan motor speed is abnormally low. In the capstan on mode, capstan FG is not detected for 5 seconds.	STOP	SERVO	POWER OFF → ON
E-64	S REEL TOO FAST	The supply reel motor speed is abnormally high more than 2 seconds.	STOP	SERVO	POWER OFF → ON
E-67	T-REEL TOO FAST	The take-up reel motor speed is abnormally high more than 2 seconds.	STOP	SERVO	POWER OFF → ON
E-69	T-REEL TORQUE ERR	An abnormal torque applied to the take-up reel motor is detected. If the T Reel Torque error voltage is more than 0.5V continuously, goes to Auto Off mode within 105 seconds.	STOP	SERVO	POWER OFF → ON
E-70	S-REEL TORQUE ERR	An abnormal torque applied to the supply reel motor is detected or if an abnormal current flowing to the current-sensing resistor is detected. If the S Reel Torque error voltage is more than 0.5V continuously, goes to Auto off mode within 105 seconds or Over current flow to Reel Motor more than 0.55A for 2 seconds.	STOP	SERVO	POWER OFF → ON
E-71	CAP TENSION ERROR	An abnormal tension at the supply side is detected in the capstan mode. Tension sensor voltage (SERVO:TP201) is more than 4.7 V or less than 0.3 V for 2 seconds.	STOP	SERVO	POWER OFF → ON
E-72	REEL TENSION ERROR	An abnormal tension at the supply side is detected in the reel mode. Tension sensor voltage (SERVO:TP201) is more than 4.7 V or less than 0.3 V for 2 seconds.	STOP	SERVO	POWER OFF → ON
E-73	REEL DIR UNMATCH	The reel motor at the take-up side is running in the reverse direction. Rotation of Take-up reel in opposite direction has continued through complete turn except speed 0 (stop)	STOP	SERVO	POWER OFF → ON
E-20	DEW	When condensation is detected, the error no. display flashes, and the unit goes into EJECT mode. The drum rotates after the cassette tape is ejected to remove condensation. When the condensation has been removed, the error no. display disappears and the VTR may be used. **<Notes>** 1) The drum rotates as soon as condensation is detected when the unit is in EJECT mode. 2) When condensation is detected while a cassette tape is inserted, drum rotation stops, the cassette tape is ejected and the drum rotation begins again.	EJECT	SYSCON	-----

* Other Operation.

1) If the Reel Base unit does not move to prescribed position within 3 seconds, Reel Motor goes to stop and the cassette is ejected.

16. Circuit board layout drawing



17. AJ-YAD455P Service Information

17-1. Node Unique ID (UID) number Setting Procedure

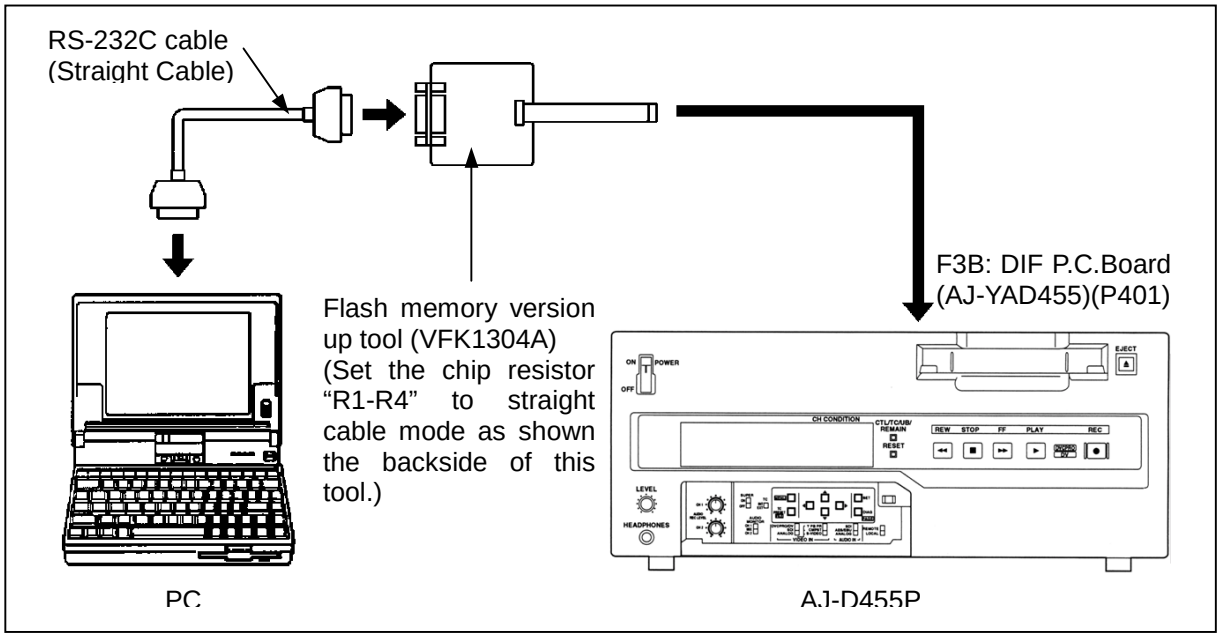
<Confirmation of UID number>

AJ-YAD455 has “Node Unique ID” for IEEE1394 I/F. This number is displayed in the DIF STATUS MENU.

1. Press the “DIAG” button, then open the Warning page.
2. Press the “ ▸ ” button twice to open the DIF STATUS page.
3. The UID number is displayed on the bottom side of the menu.

<Writing UID>

1. Connect the AJ-D455E, the “Flash memory version up tool (VFK1304A)”, and the personal computer as shown below. Pay attention not to confuse the connection direction (rear, front) for the flat cable of the tool (VFK1304A). And set the VFK1304A to “STRAIGHT CABLE” mode as shown the backside of this tool.



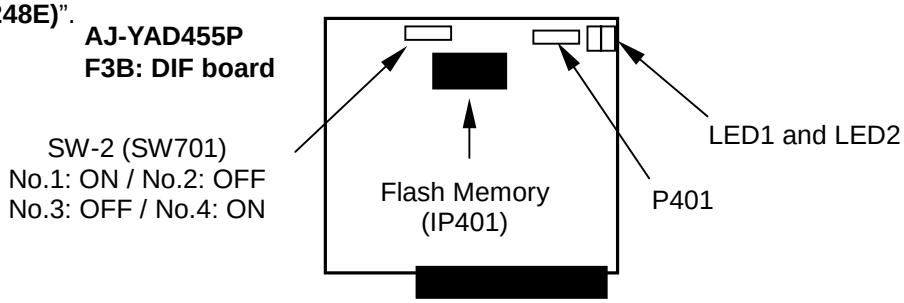
2. Set the DIP-SW1 (SW301) and SW2 (SW701) as follows.
   SW1 (SW301) = No.1:ON / NO.2-8:OFF
   SW2 (SW701) = No.1:ON / No.2:OFF / No.3:OFF / No.4:ON
3. Turn on the power of personal computer.
4. Start up the Hyper Terminal of Windows 95/98 on the personal computer.
   (Programs of Windows → Accessories → Hyper Terminal → Hypertrm)
   Name the Hyper Terminal "1394", and select an icon.
   Select the connection method. (Connecting using: Direct to COM*)
   Perform settings of the Port. (Bits per second: 9600, Data bits: 8, Parity: None, Stop bits: 1, Flow control: None)
   File → Properties → Settings → ASCII Setup → put a mark on the "Append line feeds to incoming line ends" of ASCII Receiving.
5. Turn on the power of AJ-D455E.
6. The initial screen of Debug Monitor appears on the Hyper Terminal screen.

```
*******************************************************************************
*                          -- Debug Monitor --                                *
*   Copyright(C) 1997-1998, Matsushita Electric Industrial Co., Ltd.  *
*                          All right reserved                                 *
*******************************************************************************
```

7. Press the Enter key, and confirm that "MON >>" appears.
8. Input the UID command "MON >>uid ********", which is the 8 digits of the second half of the UID. (The 8 digits of the first half is always 00804582.)
9. Confirm that "&OK" and "MON >>" appear.
10. Close the software "Hyper Terminal". Turn the power of AJ-D455E off.
11. Set the SW1and 2 to original position.

17-2. Version Upgrade for Flash Memory

The AJ-YAD455P (F3B: DIF board) has flash memory. For the software version up, connect the "**Flash memory version up tool (VFK1304A)**" to the tool connection connector and use the "**Flash memory version up software (VFK1248E)**".



17-2-1. Version Upgrade Preparations

1. Items required for flash memory writing

Flash memory version up software ····· **VFK1248E**
NOTE: Software with the old version (VFK1248A) can not be used.
Flash memory version up tool ····· **VFK1304A**
Personal computer compatible with Windows 95/98
RS-232C cable (9pin-9pin Straight -cable)

2. Installation of the flash memory version up software

Copy the following file to arbitrary directory on a personal computer compatible with Windows 95/98.
(After execution of the software, an ".INI" file will be created in the same directory as the program file, but this may be left or may be deleted as desired.)

Program file ····· **VSI2312E.EXE**

3. Setting of the flash memory version up tool

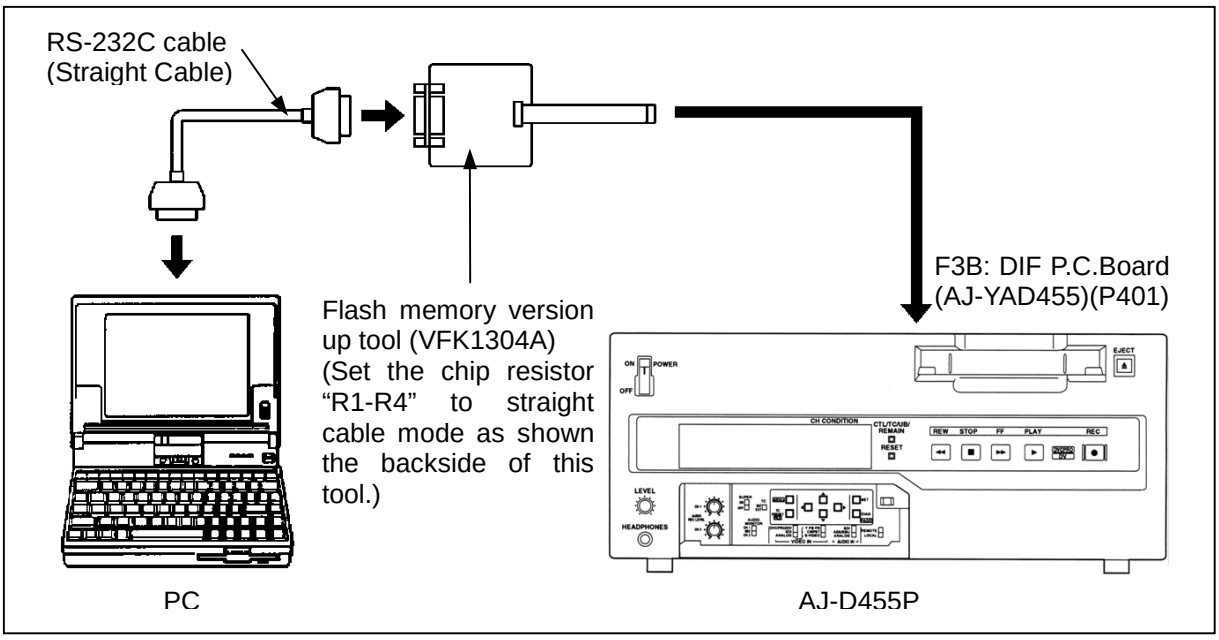
Set the VFK1304A to "STRAIGHT CABLE" mode as shown the backside of this tool.

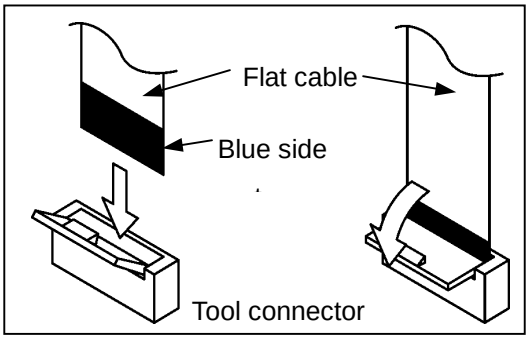
Confirm the switch settings of the "flash memory version up tool (VFK1304A)".

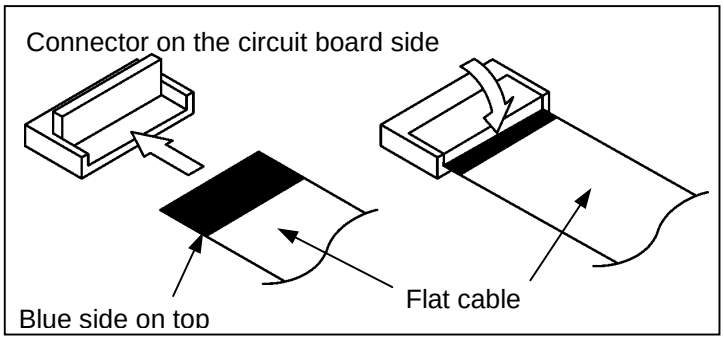
SW1-1: ON **SW1-3: OFF**
SW1-2: ON **SW1-4: OFF**

4. Connection of the flash memory version up tool

Turn off the power of the AJ-D455E and the personal computer and then connect them as shown in the following figure. Pay attention not to confuse the connection direction (top, bottom) for the flat cable of the flash memory version up tool (VFK1304A).

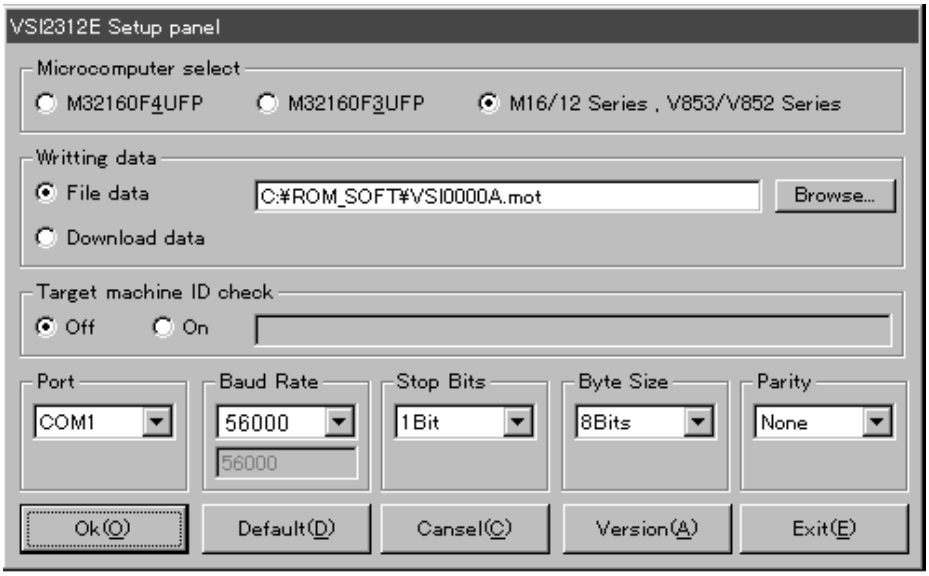






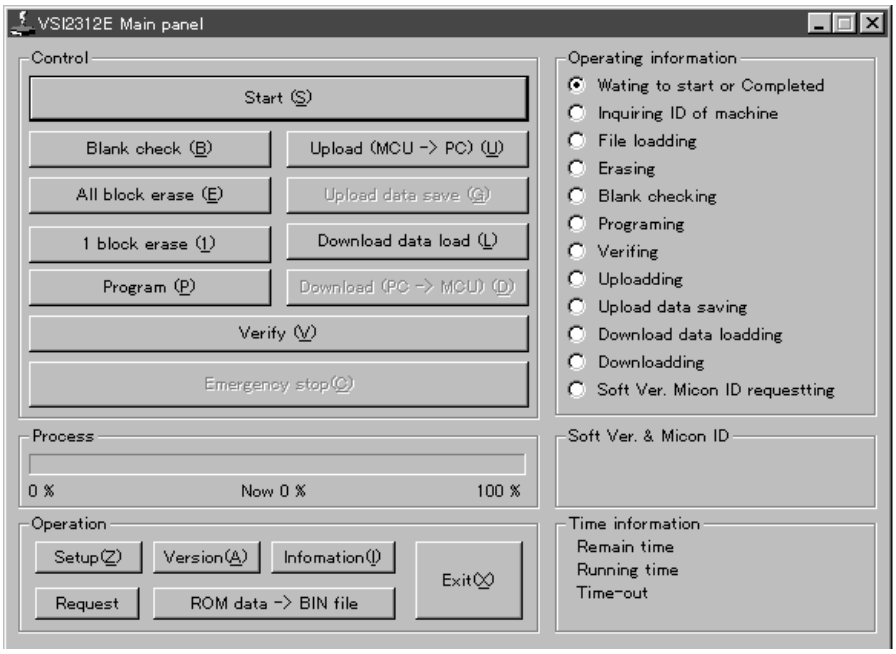
17-2-2. Version Upgrade Procedure

1. Boot up the personal computer in the condition which "**16-2-1. Version Upgrade Preparations**" is completed.
2. Turn on the power of the AJ-D455E. Confirm that the LED1 and LED2 on the DIF board should be OFF.
3. Start the flash memory version up software.
   (Double-click the program file "**VSI2312E.EXE**", which had been copied to arbitrary directory, or create a shortcut to "**VSI2312E.EXE**" and double-click the shortcut.)
4. When this program is started, the "Setup Panel" will open as shown below.

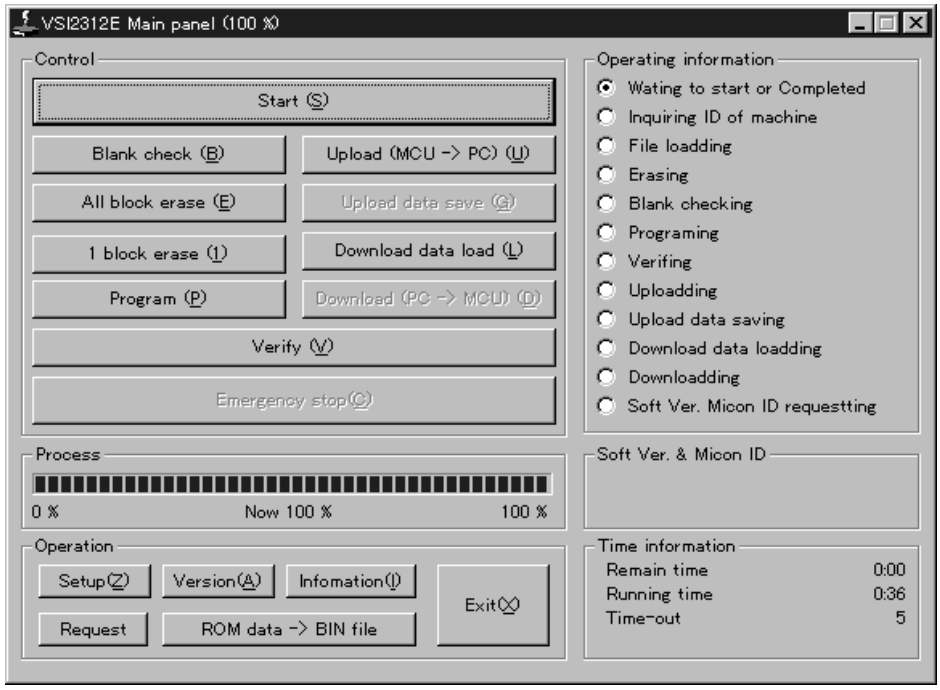


5. Perform the following settings on the "**Setup Panel**".
   - ○ Microcomputer select ····· **M16/12 Series. V853/852 Series**
   - ○ Writing data ····· **File data**
     Enter the new software (XXXX.mot) for the version upgrade with the full path. You can also use the "Browse..." button on the "Setup Panel" to select the file name and the location of the new software.
   - ○ Target machine ID check ····· **OFF**
   - ○ Port ····· Set the port which the RS-232C cable of the personal computer is connected to.
   - ○ Baud Rate ····· **56000**
   - ○ Stop Bits ····· **1Bit**
   - ○ Byte Size ····· **8Bits**
   - ○ Parity ····· **None**

6. When the settings on the “**Setup Panel**” is completed, click “**Ok(O)**”. The “**Main Panel**” will be opened as shown below.



7. Click “**Start (S)** ” on the “**Main Panel**”. (If you want to quit here, click “**Exit**”. If you want to return again to the “**Setup Panel**”, click “**Setup(Z)**”.)
8. After erasing of the flash memory, the new software will be written to the flash memory. During the processing, the progress status can be confirmed by means of the “**Process**” indicator. If the indicator should not advance for some reason, click “**Emergency stop(C)**” to stop the work, connect again, and confirm the settings.
9. When erasing and writing of the flash memory is completed, the “Process” indicator reaches 100%, and a black dot appears for “**Waiting to start or Complete**” of “**Operating information**”. (Next page)



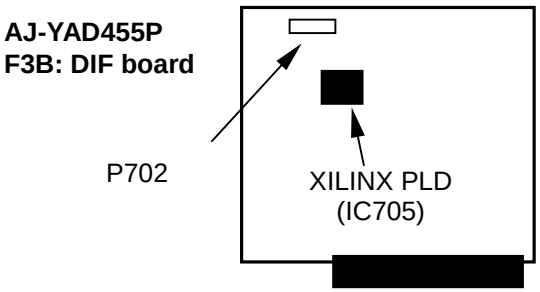
10. When the above status is reached, click “**Exit(X)** ” to end the program.
11. When the version upgrade is completed, turn off the power of the AJ-D455E and remove the version up tool.
12. Turn on the AJ-D455E power again and press the buttons “**PLAY**” and “**STOP**” at the front panel simultaneously to confirm that the version has been upgraded.

17-3. PLD Version Upgrade Procedure

The AJ-YAD455P uses **PLDs**. At the time of a version upgrade, use the special tool, connect the respective connection connectors, and use the PLD writing software.

17-3-1. PLD Chart

Circuit board name	Connector	Number of pins'	PLD No.	PLD maker	Use quantity
F3B: DIF (AJ-YAD455P)	P702	8P	XC95144XL (IC705)	XILINX	1



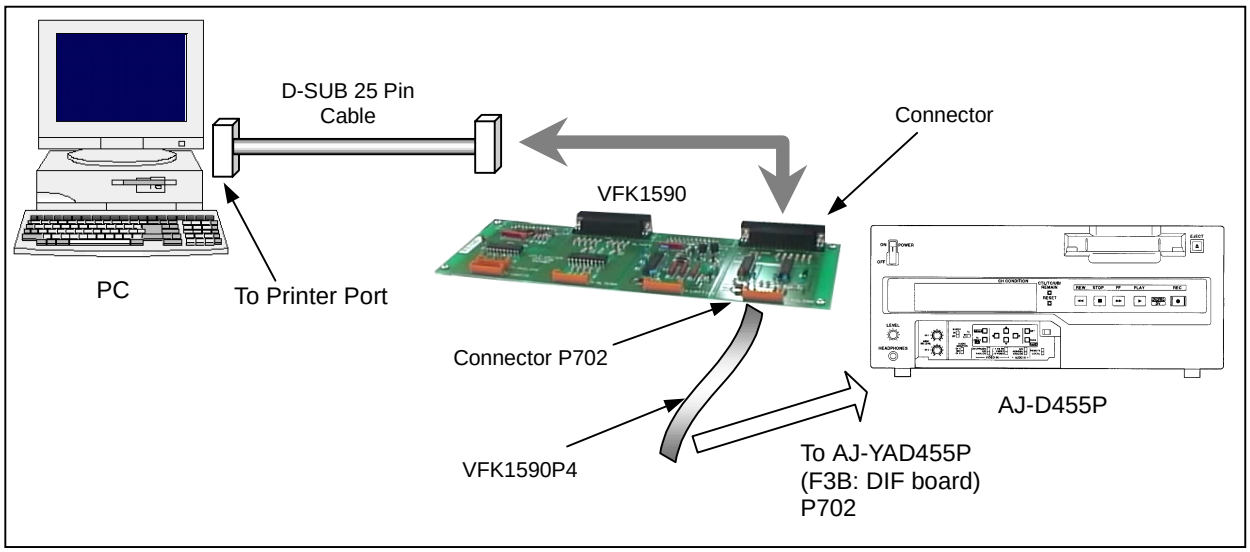
17-3-2. PLD Version up Method (XILINX)

A. Preparation

ITEM	REMARK
C PLD WRITER	VFK1590 VFK1590P4 (VFK1590 standard)
25pin-25pin Cable	Straight (Male - Female), Length : Within 1meter
Version Upgrade Software	JTAG Programmer Software Please download from the following URL http://www.xilinx.com/support/download.htm 1. Open this page and then select "WebPACK ISE". 2. Before downloading, Registration is required to get ID and Password. 3. Select FPGA and XPLA programmer from "Getting Start" menu.
Version Upgrade Data	cdf File (Include in VSI**** file)
Personal Computer	WINDOWS 95® or 98®

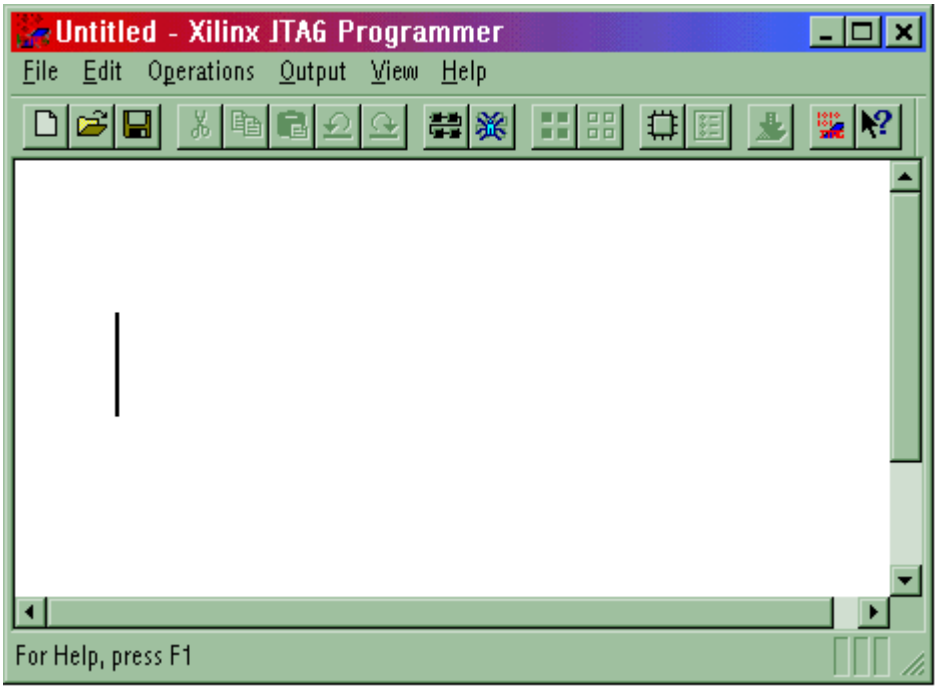
B. Connection

1. Connect the D-sub Cable between CN401 (for XILINX) connector of the CPLD WRITER(VFK1590) and Personal Computer (Printer port).
2. Connect the CPLD WRITER Cable (VFK1590P4) between connector on objective PCB and P4 connector of CPLD WRITER. (Refer to 16-3-1.Chart of PLD Writer and following figure.)
3. Turn on AJ-D455E and Personal Computer (Windows mode).

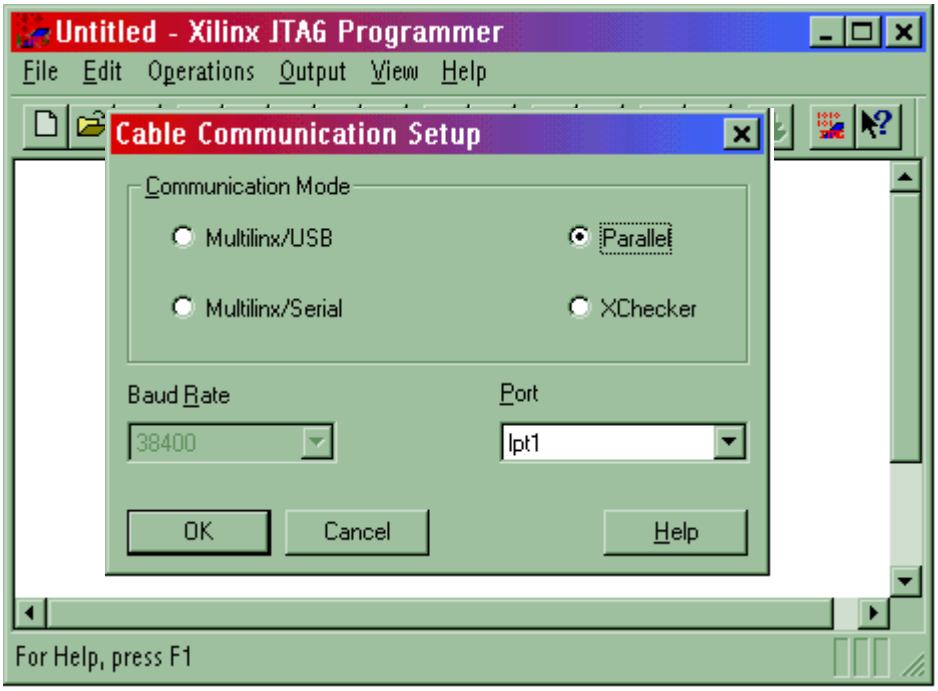


C. Boot up the Ver. Up Software and Ver. up Procedure

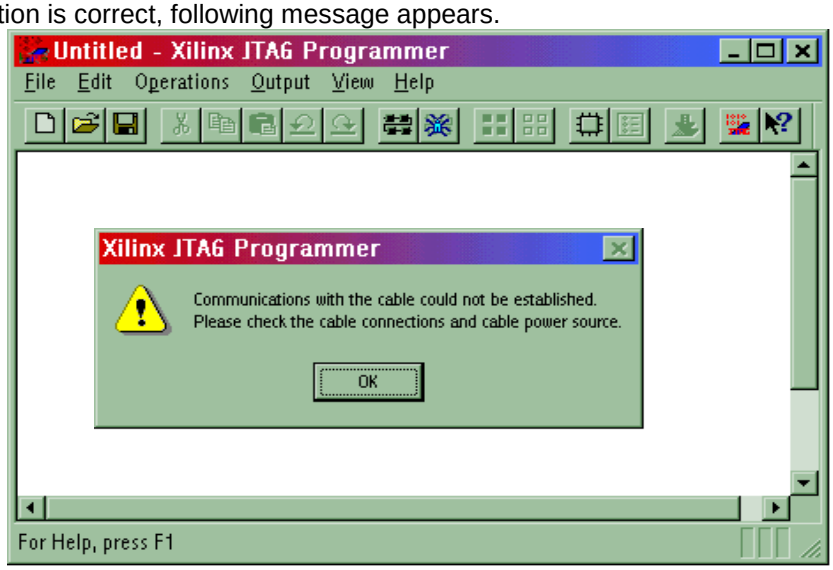
1. After download the program, **"Xilinx CPLD Webpack"** folder is created on windows. Click the start button of windows program **"Xilinx CPLD Webpack"**, then Device Program is boot up and following screen appears.



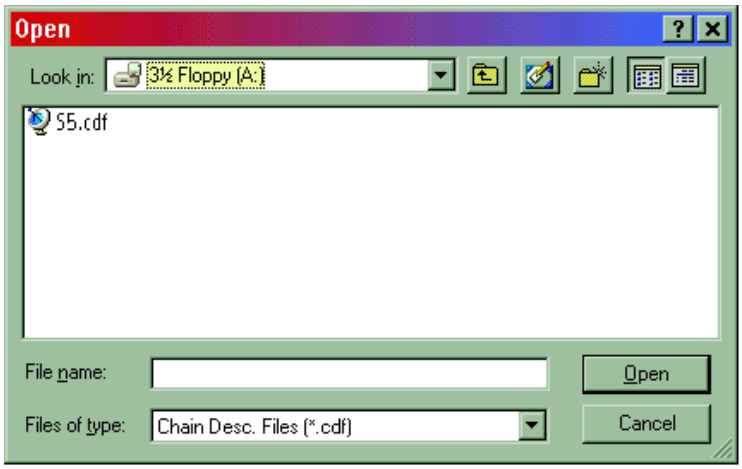
2. Click **"OUTPUT"** on the menu bar and select **"Parallel"** for **"Cable Communication Setup"** (default port is **"lpt1"**).



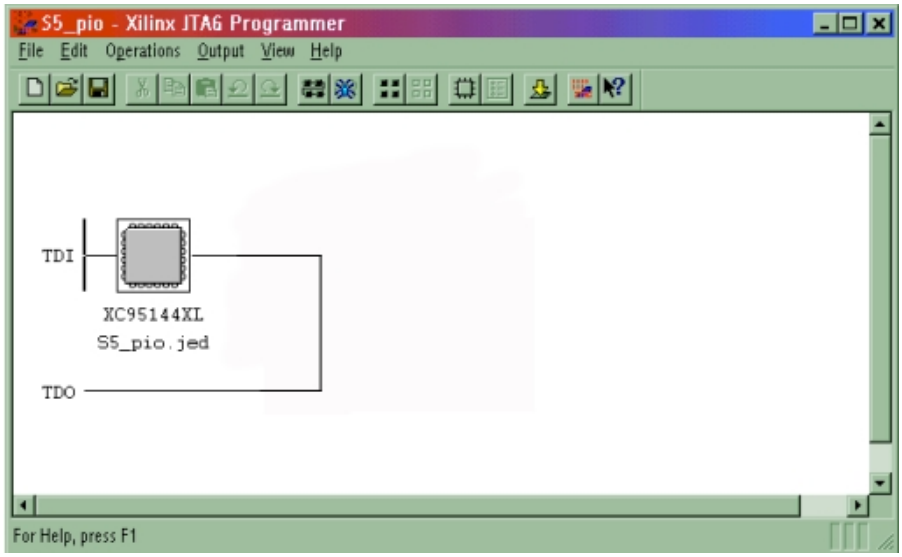
3. If connection is correct, following message appears.



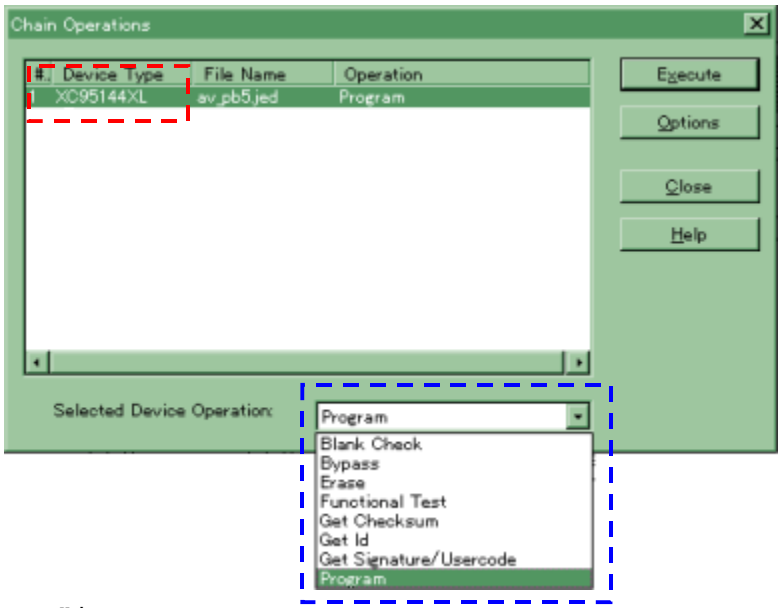
4. Click **"OK"** button.
5. Insert the floppy disk for version up data into A drive.
6. Open the target file. This file called Disk file, because one file can write several CPLDs like a chain.



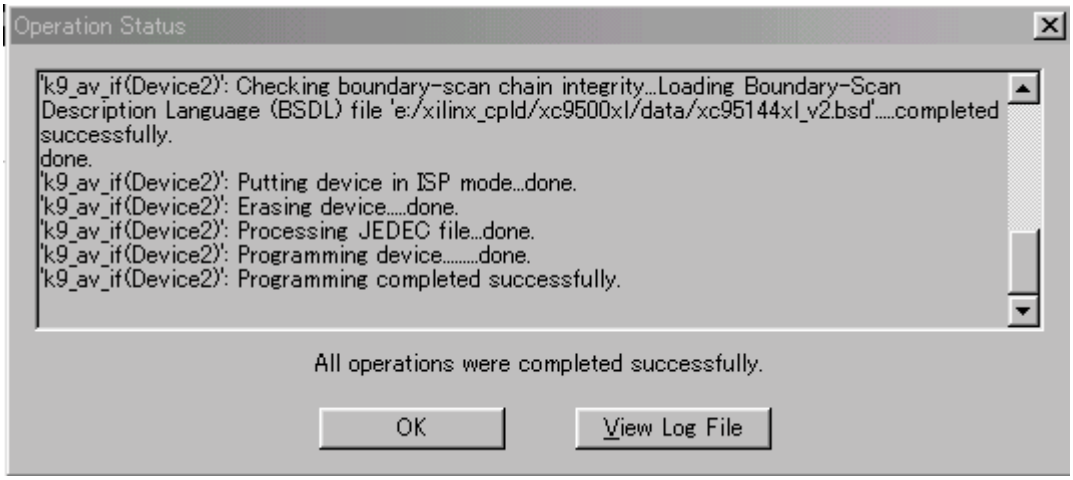
7. Click **"Open"** button, then following screen appears.

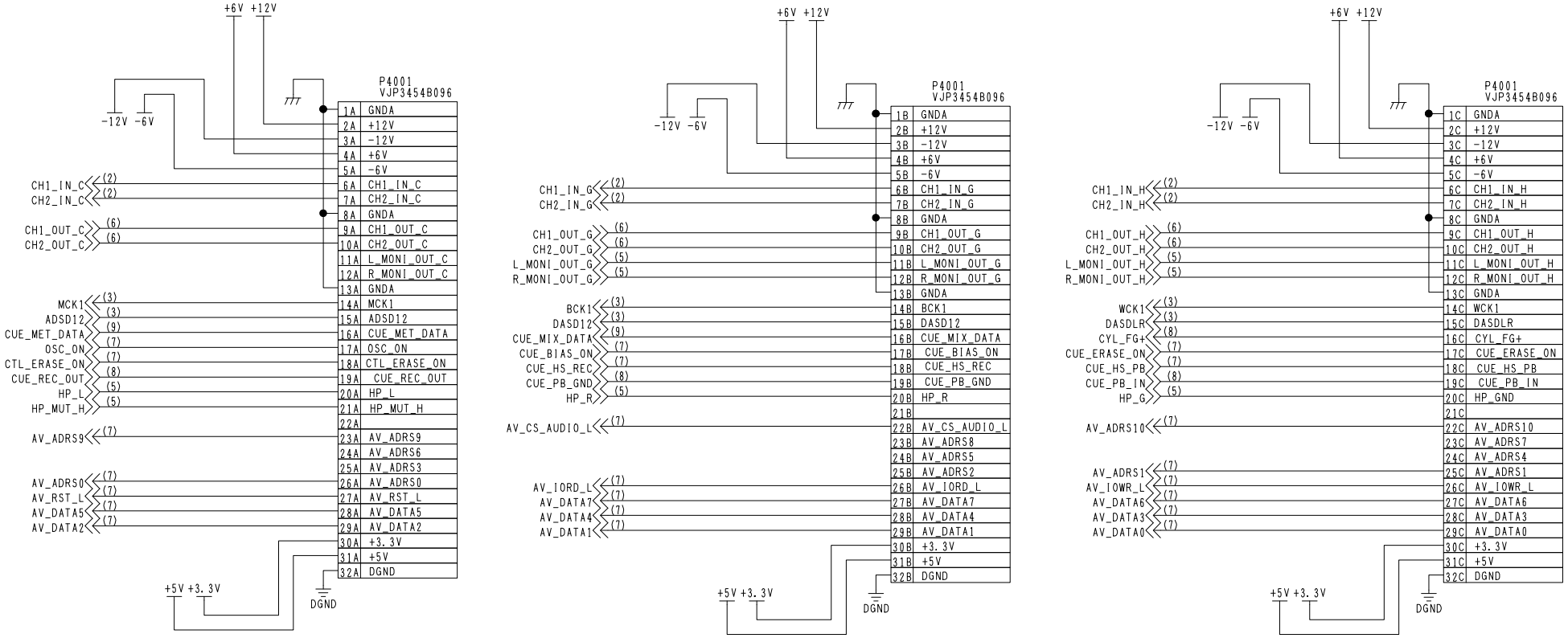


8. Then click **“Operations”** on menu bar and select **“Chain Operation”**. Then following screen appears.
9. Select the device from the **“Device Type”** column on the Chain Operation Window.
   Click the **“Selected Device Operation”** and select **“Program”**.
   Perform this procedure to all devices.

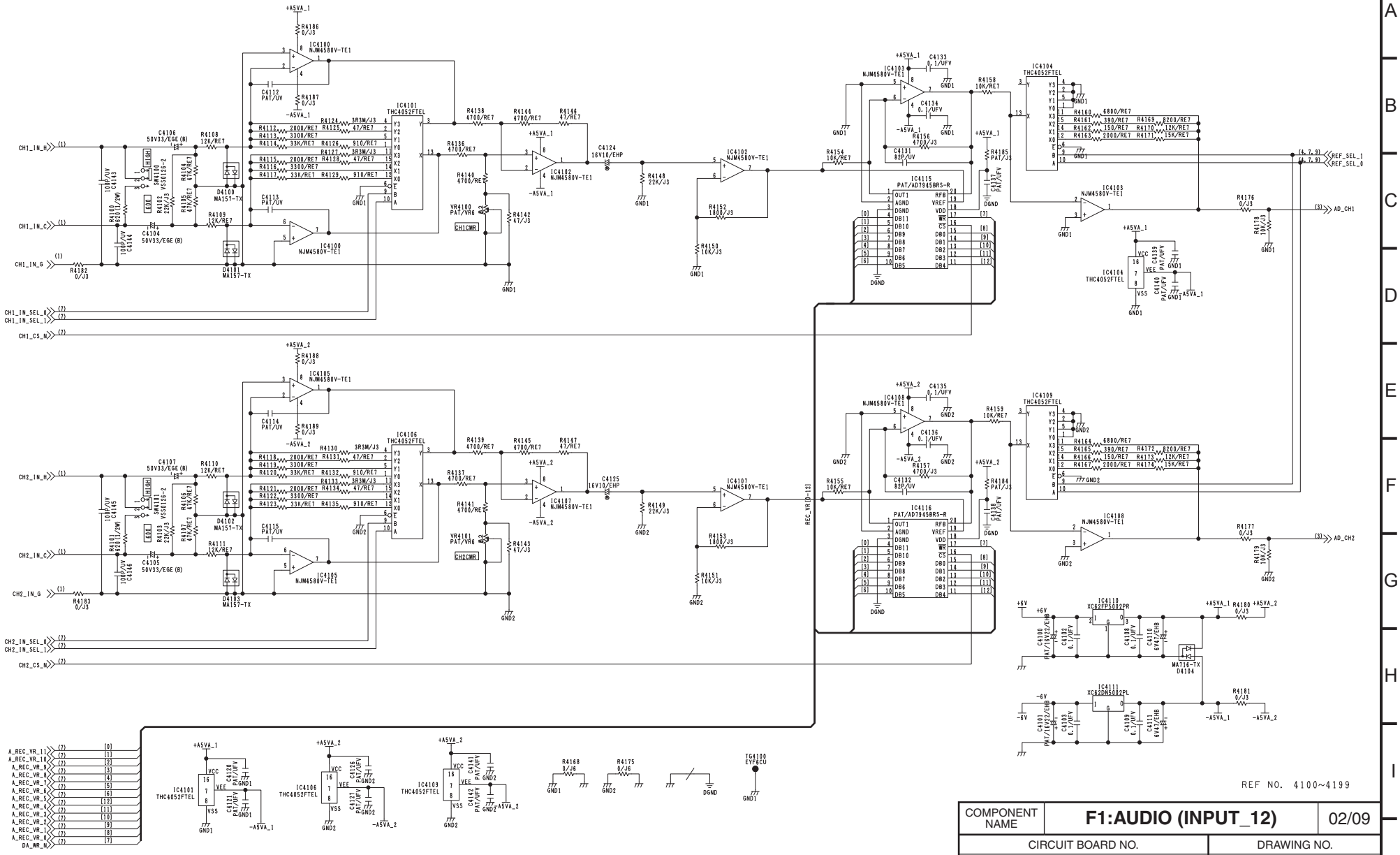


10. Click **“Execute”** button.
11. When the following screen with the message of **“All operation were completed successfully.”** appears, data writing is completed.



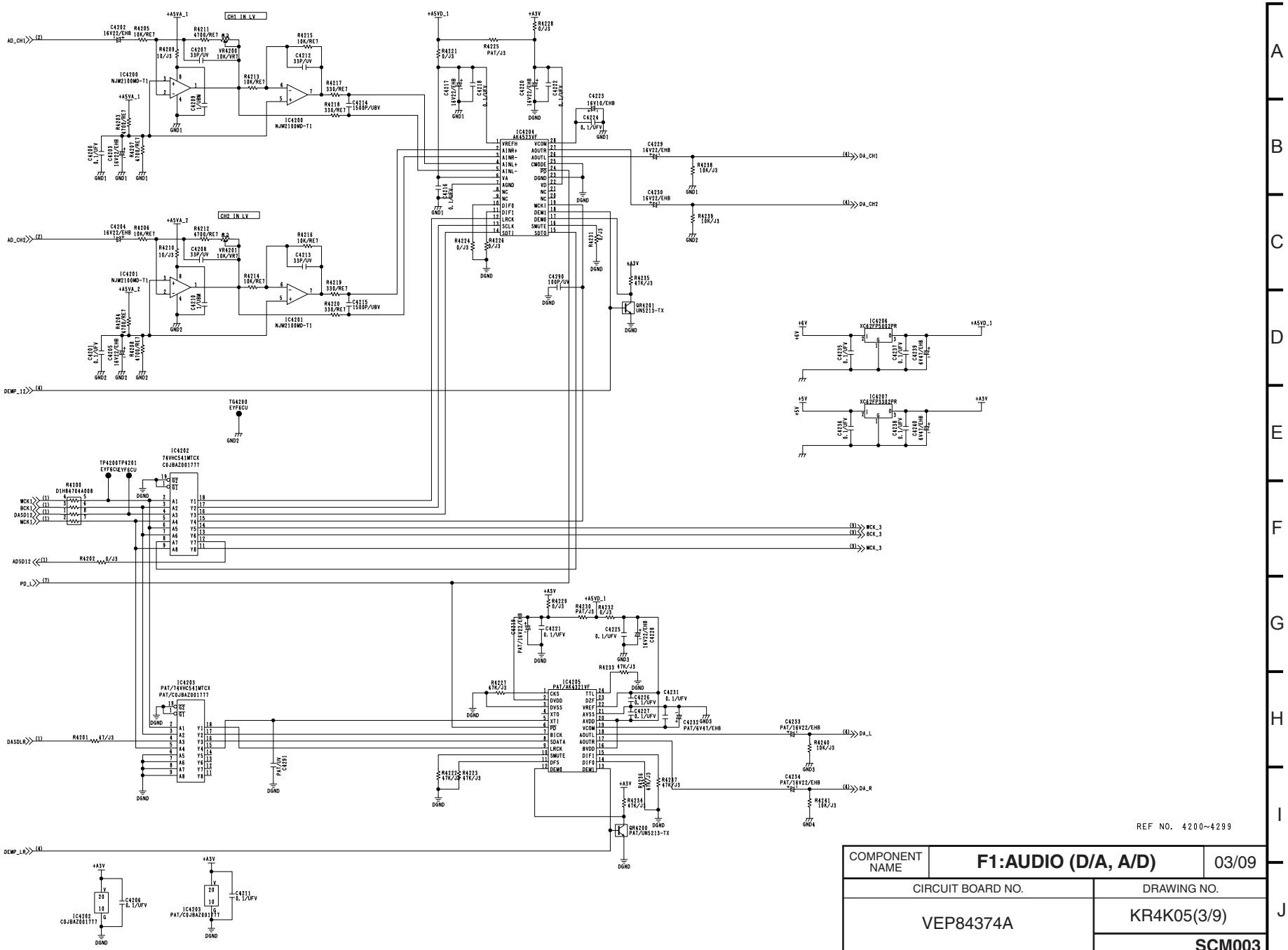


COMPONENT NAME	F1:AUDIO(CONNECTOR)	01/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP84374A		KR4K05 (1/9)
		SCM001



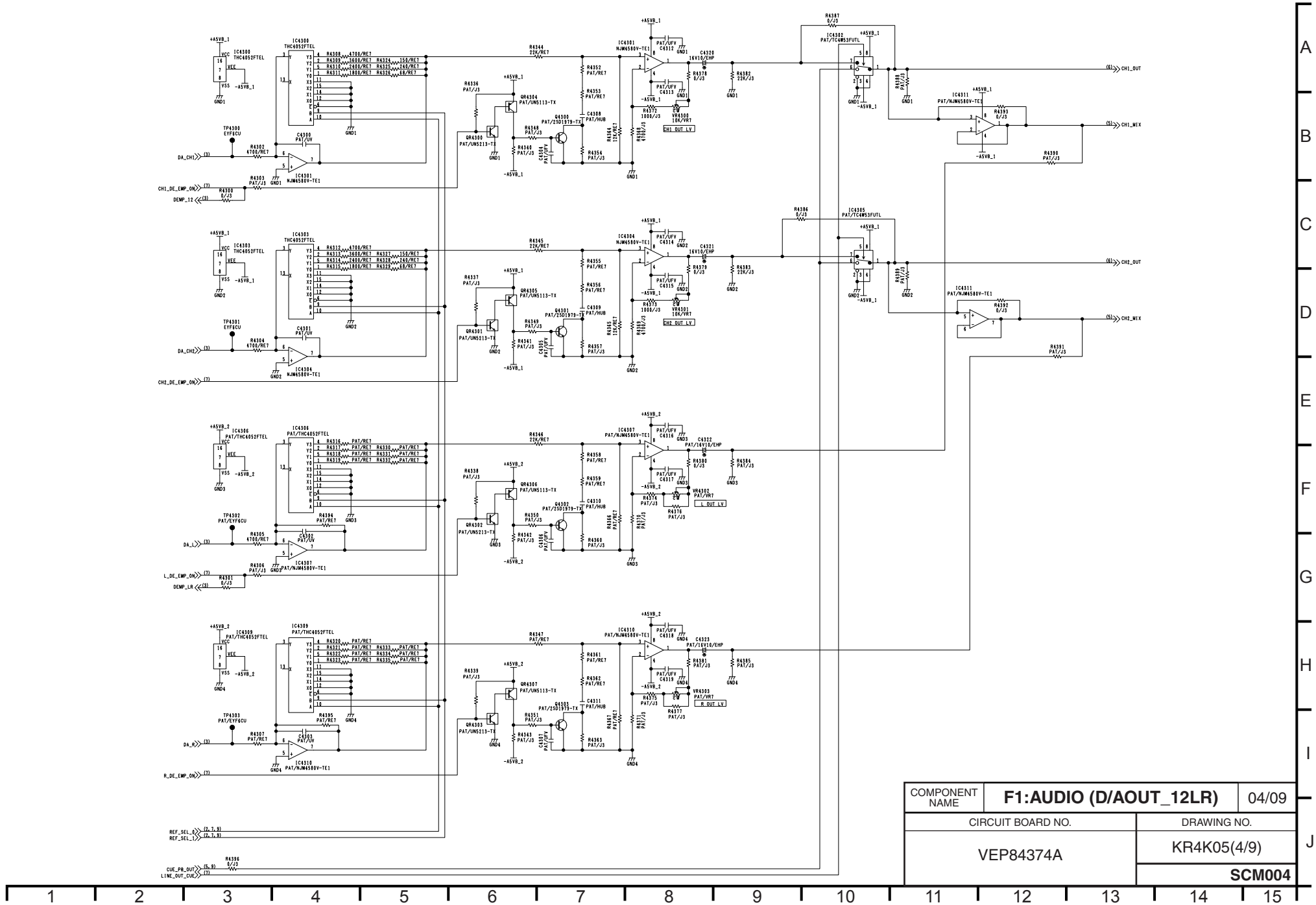
REF NO. 4100~4199

COMPONENT NAME	F1:AUDIO (INPUT_12)	02/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP84374A		KR4K05 (2/9)
		SCM002

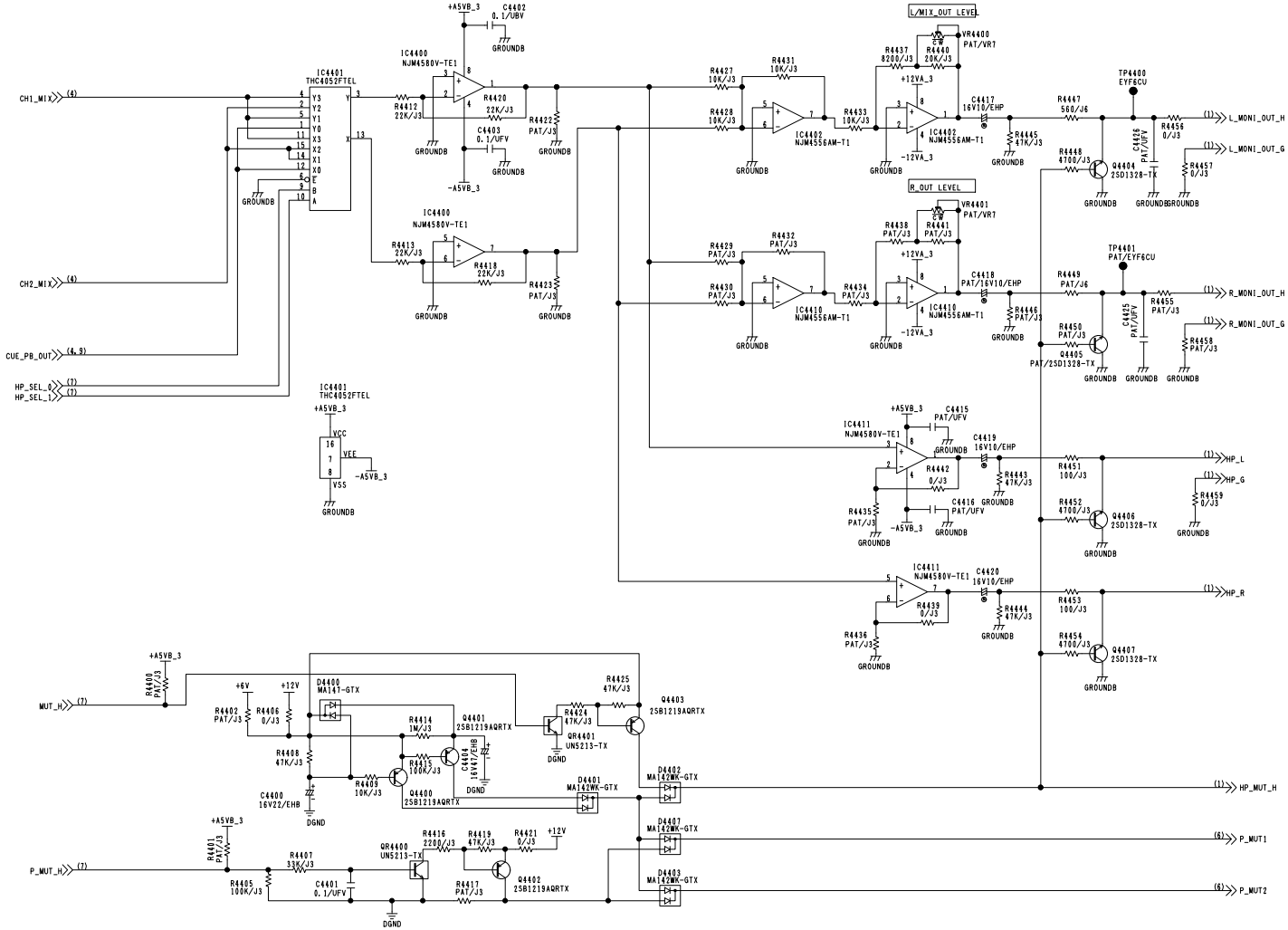


REF NO. 4200~4299

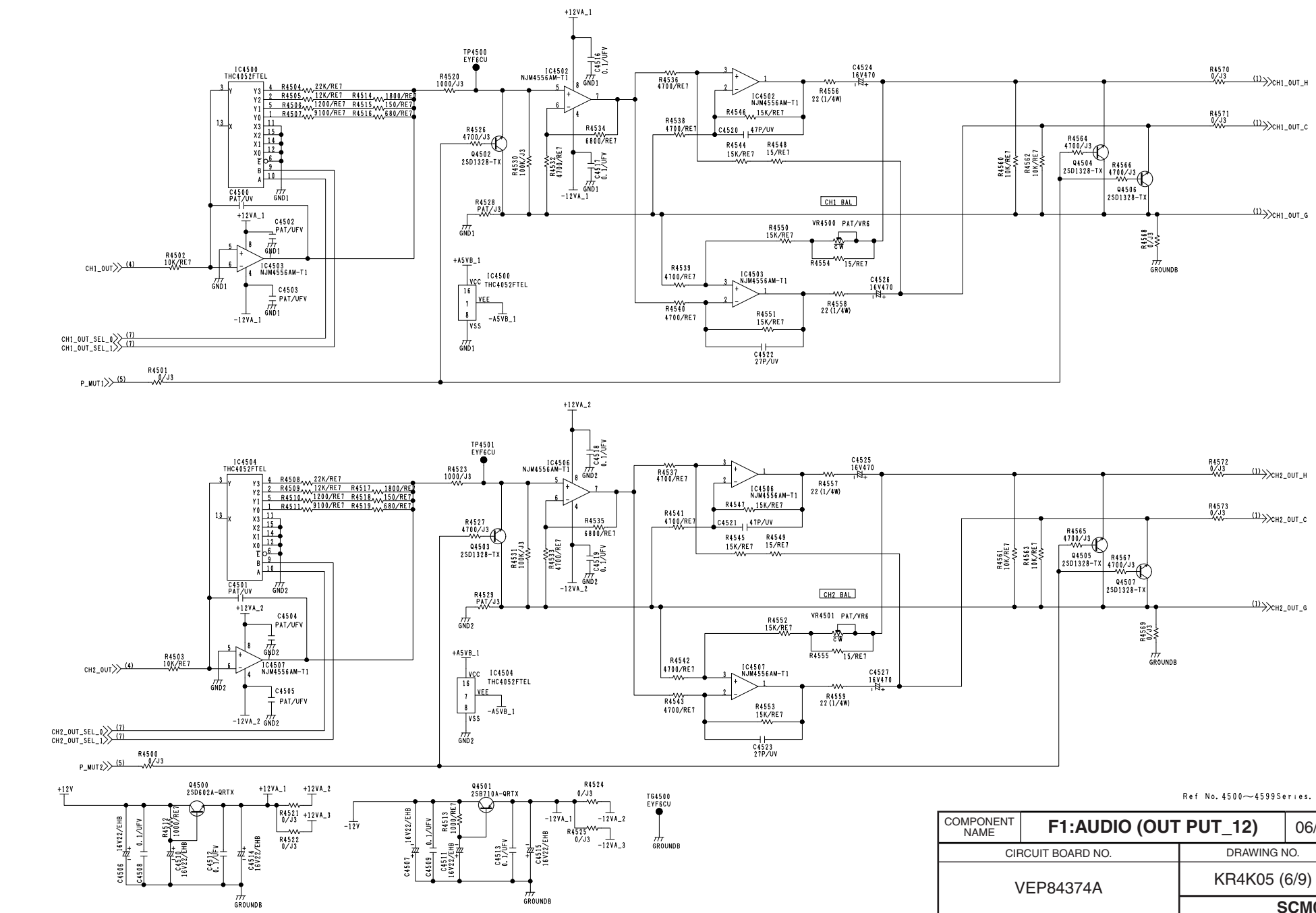
COMPONENT NAME	F1:AUDIO (D/A, A/D)	03/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP84374A		KR4K05(3/9)
		SCM003



COMPONENT NAME	F1:AUDIO (D/AOUT_12LR)	04/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP84374A		KR4K05(4/9)
		SCM004

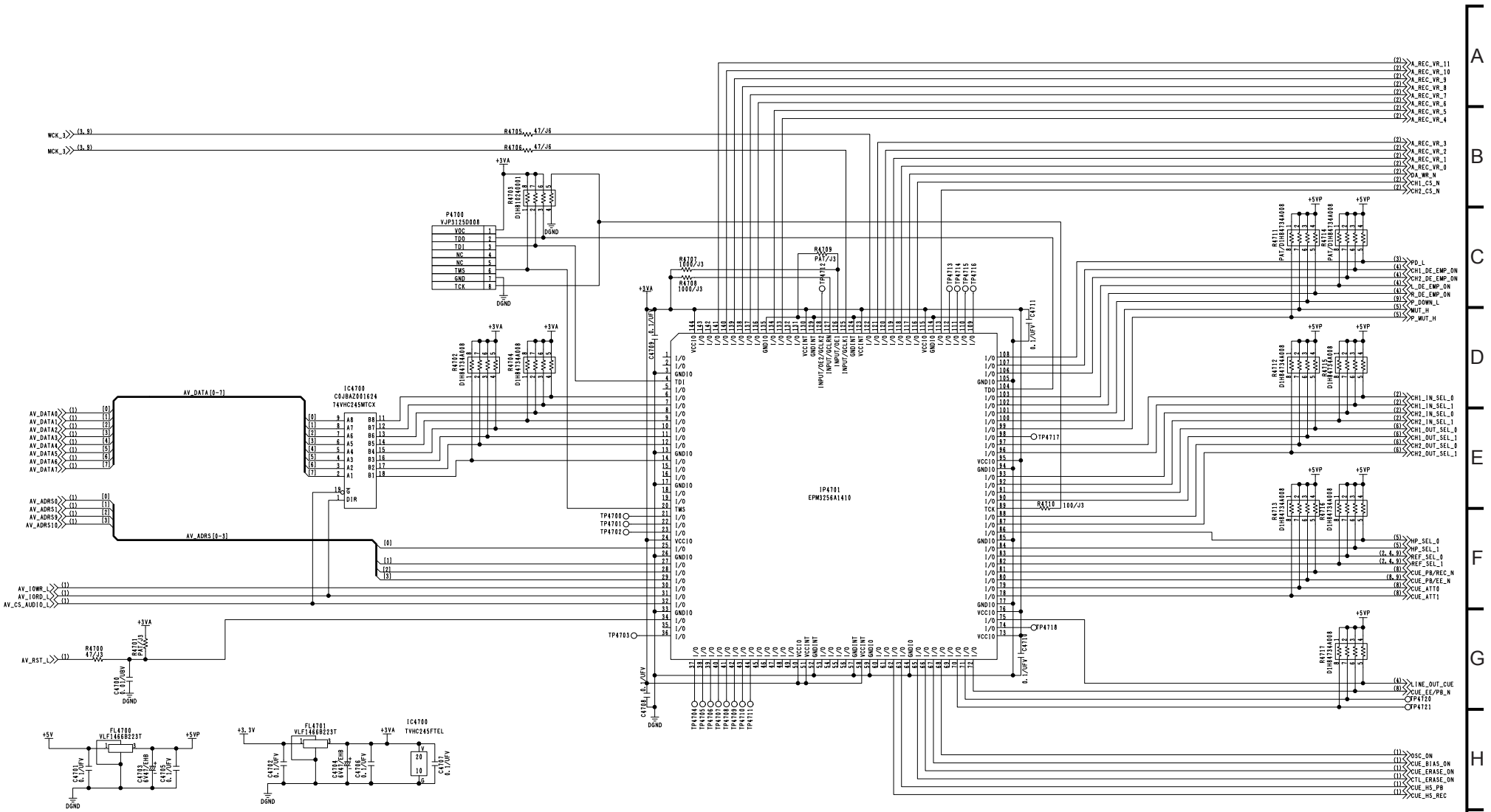


COMPONENT NAME	**F1:AUDIO (MIX/HP_OUT)**	05/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84374A	KR4K05 (5/9)	
	SCM005	

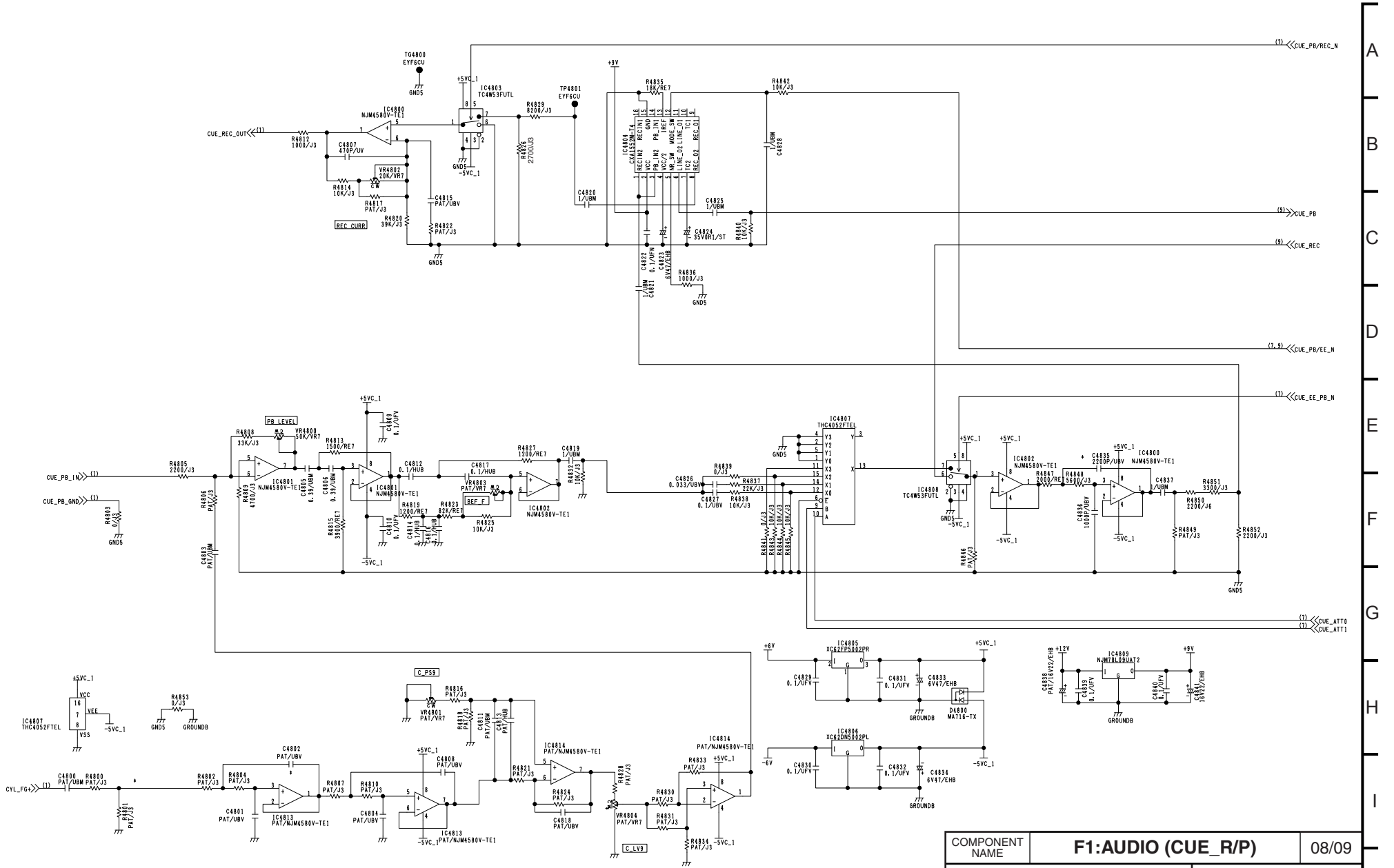


Ref No. 4500～4599Series.

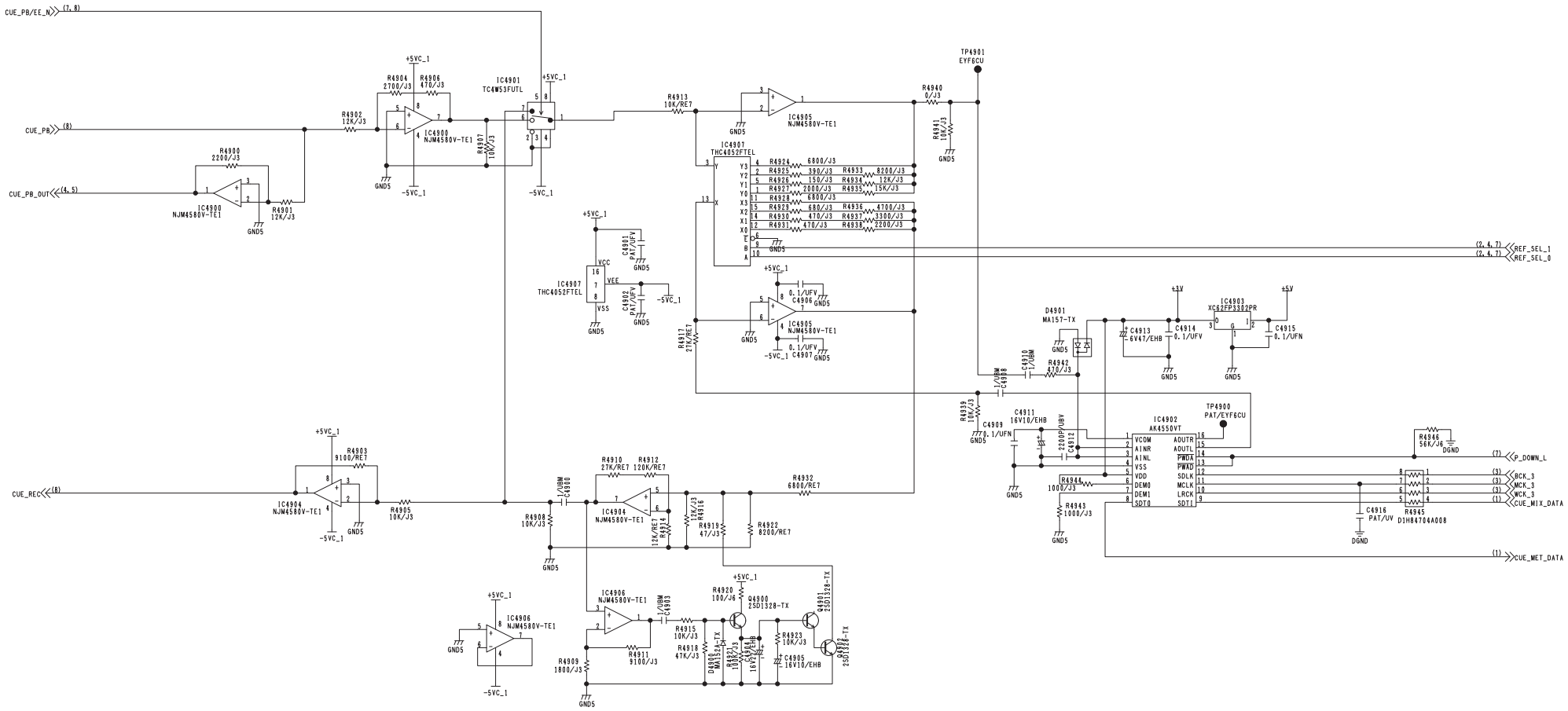
COMPONENT NAME	F1:AUDIO (OUT PUT_12)	06/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP84374A		KR4K05 (6/9)
		SCM006



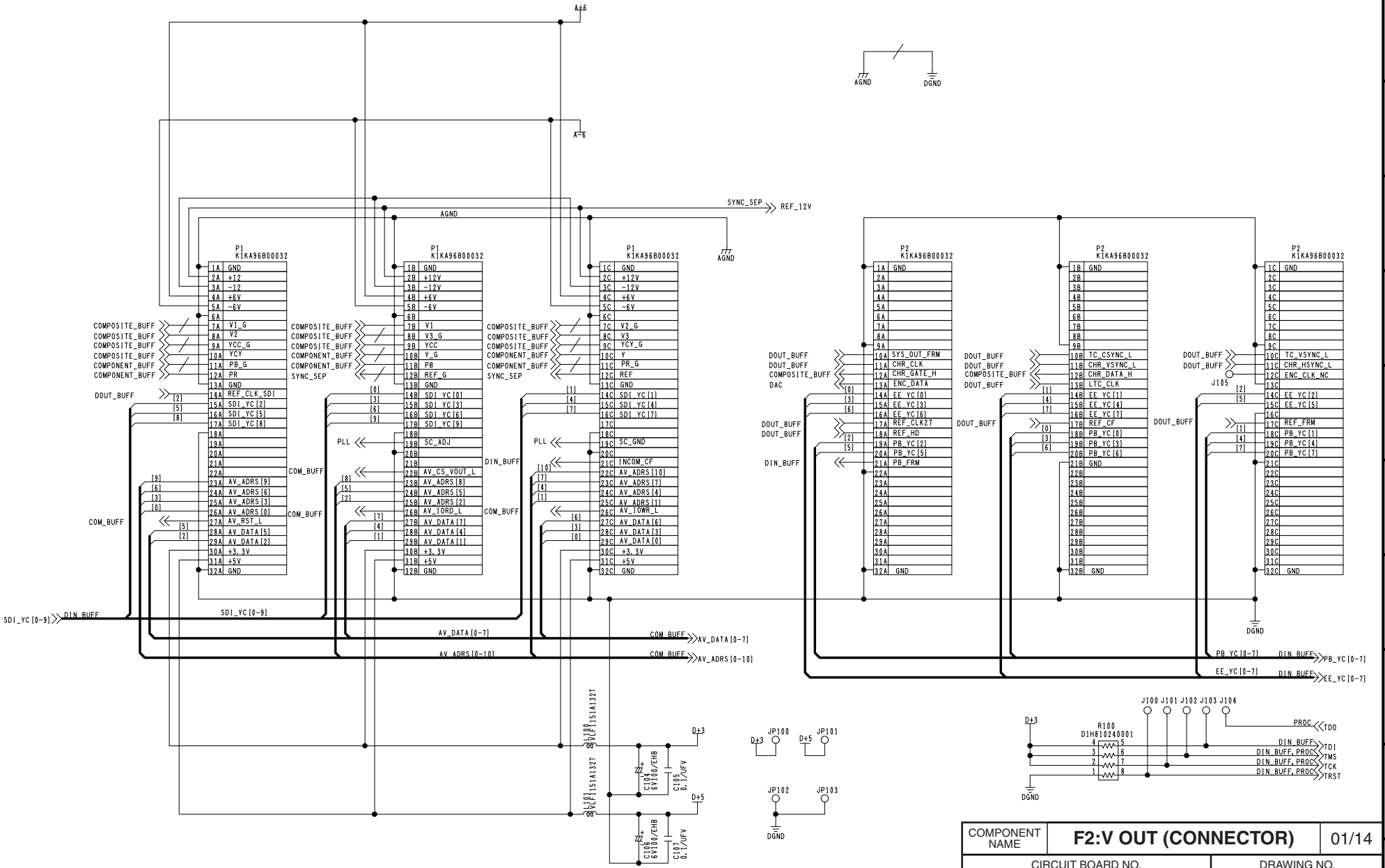
COMPONENT NAME	F1:AUDIO (PIO)	07/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP84374A		KR4K05 (7/9)
		SCM007



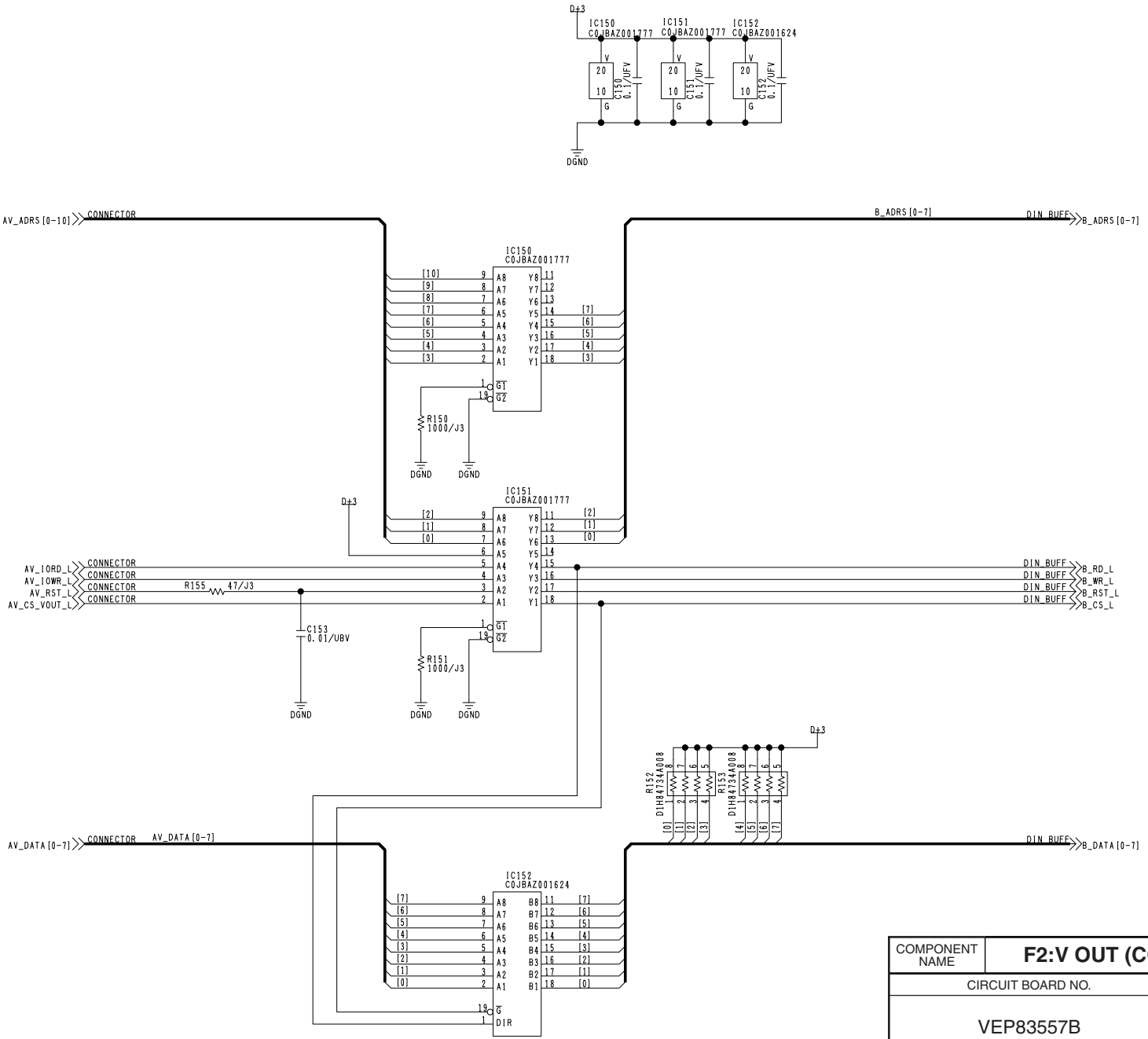
COMPONENT NAME	F1:AUDIO (CUE_R/P)	08/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP84374A		KR4K05 (8/9)
		SCM008



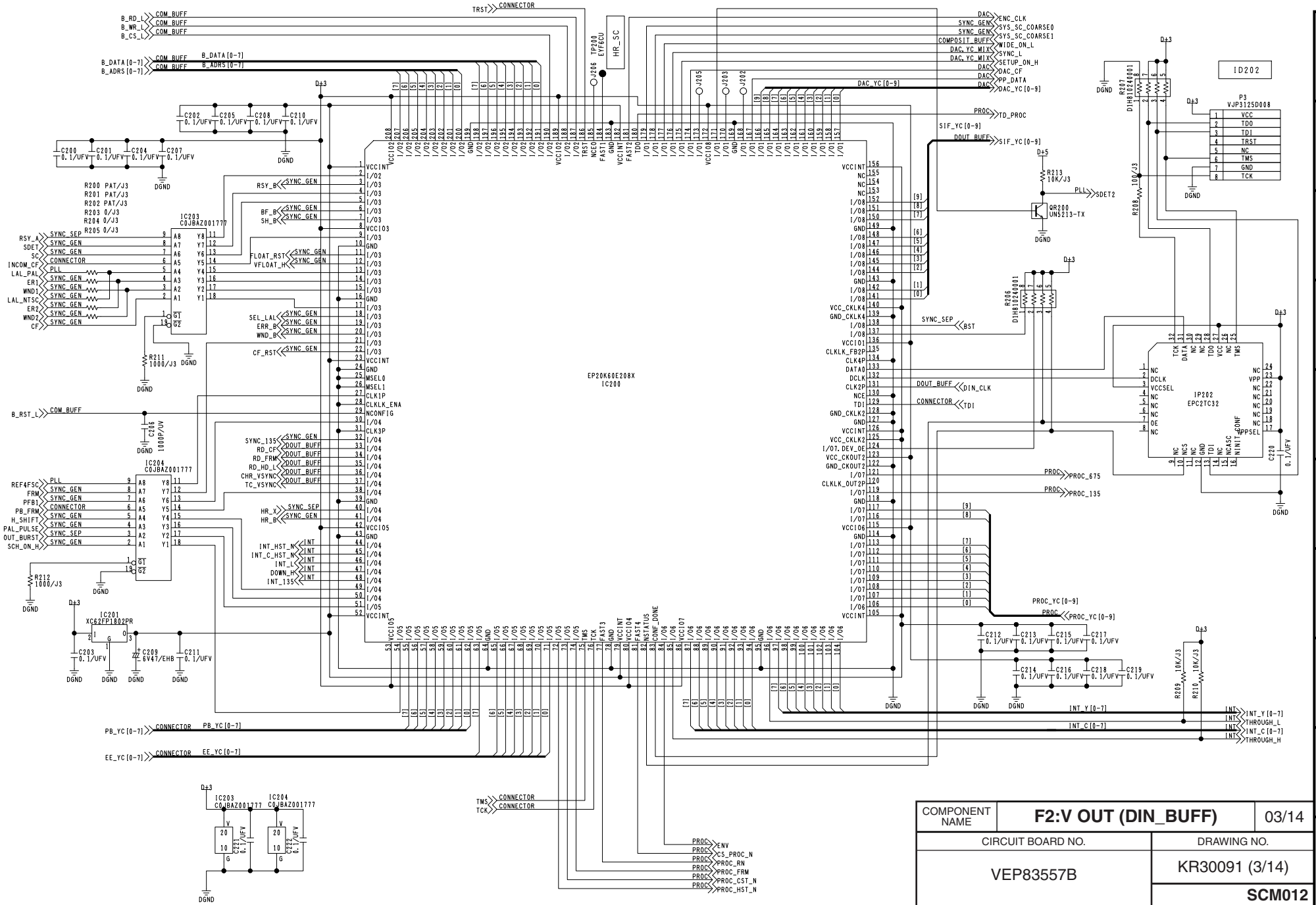
COMPONENT NAME	**F1:AUDIO (CUE_INPUT)**	09/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84374A	KR4K05 (9/9)	
	SCM009	



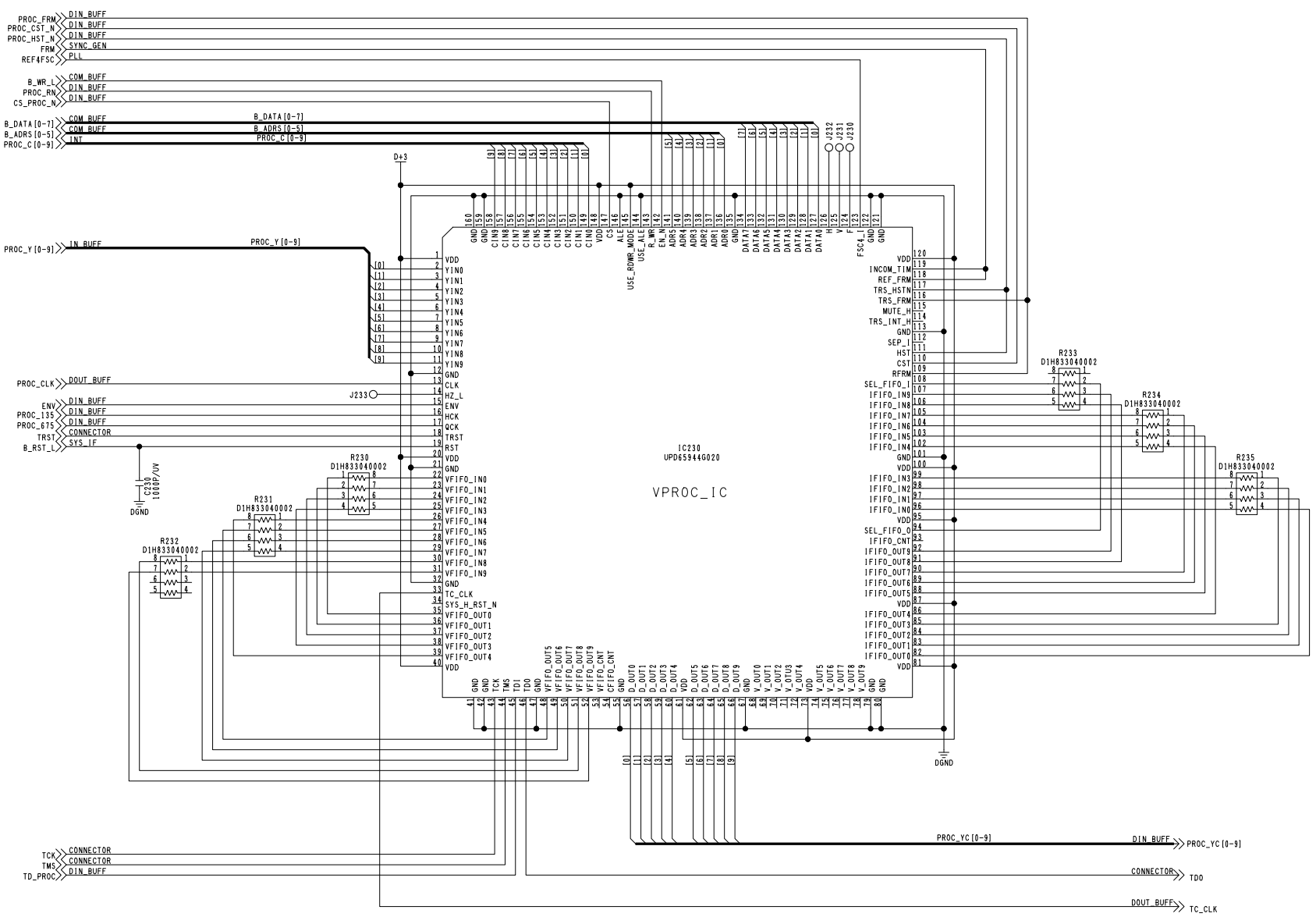
COMPONENT NAME	F2:V OUT (CONNECTOR)	01/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP83557B		KR30091 (1/14)
		SCM010



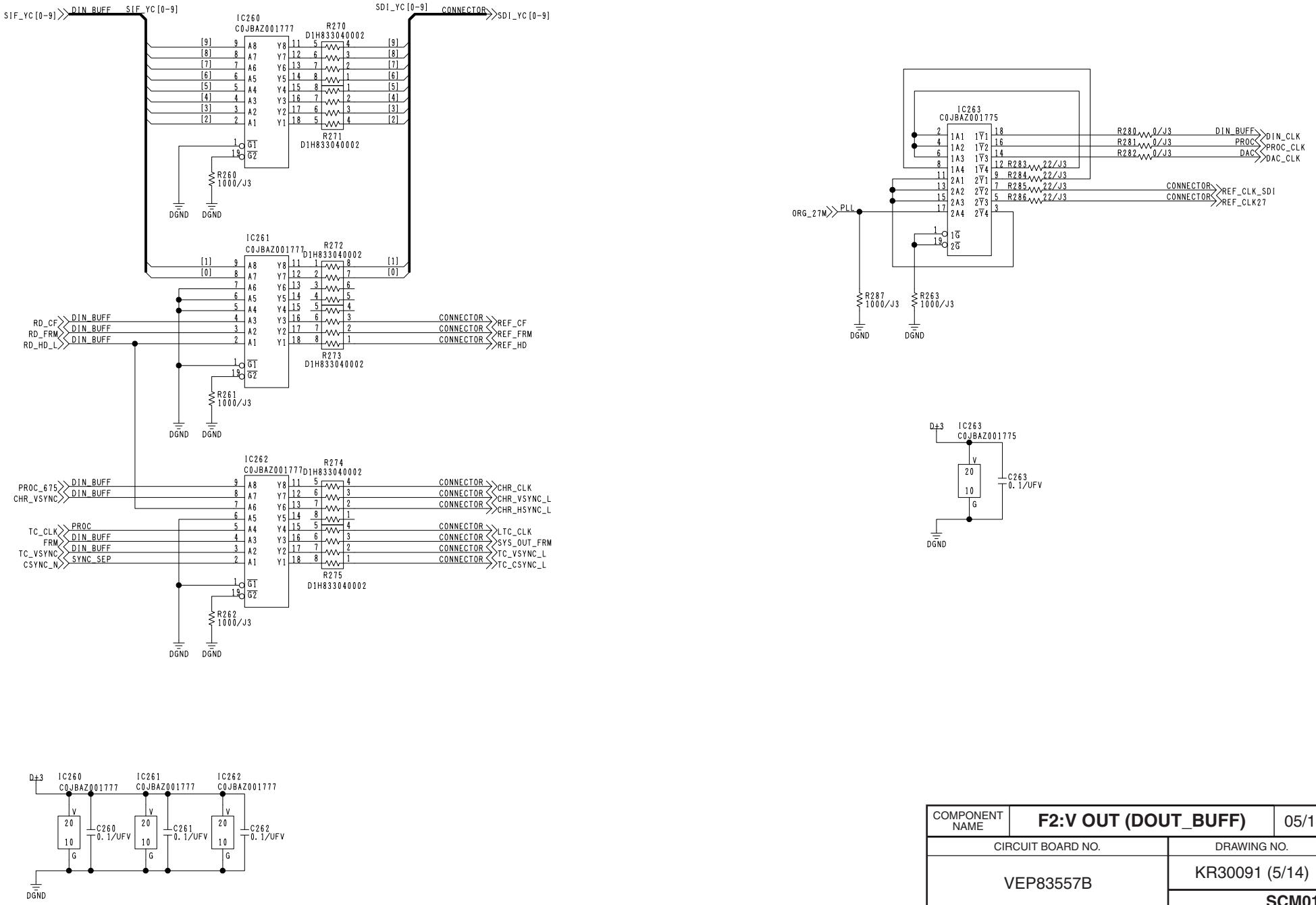
COMPONENT NAME	F2:V OUT (COM_BUFF)	02/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP83557B		KR30091 (2/14)
		SCM011



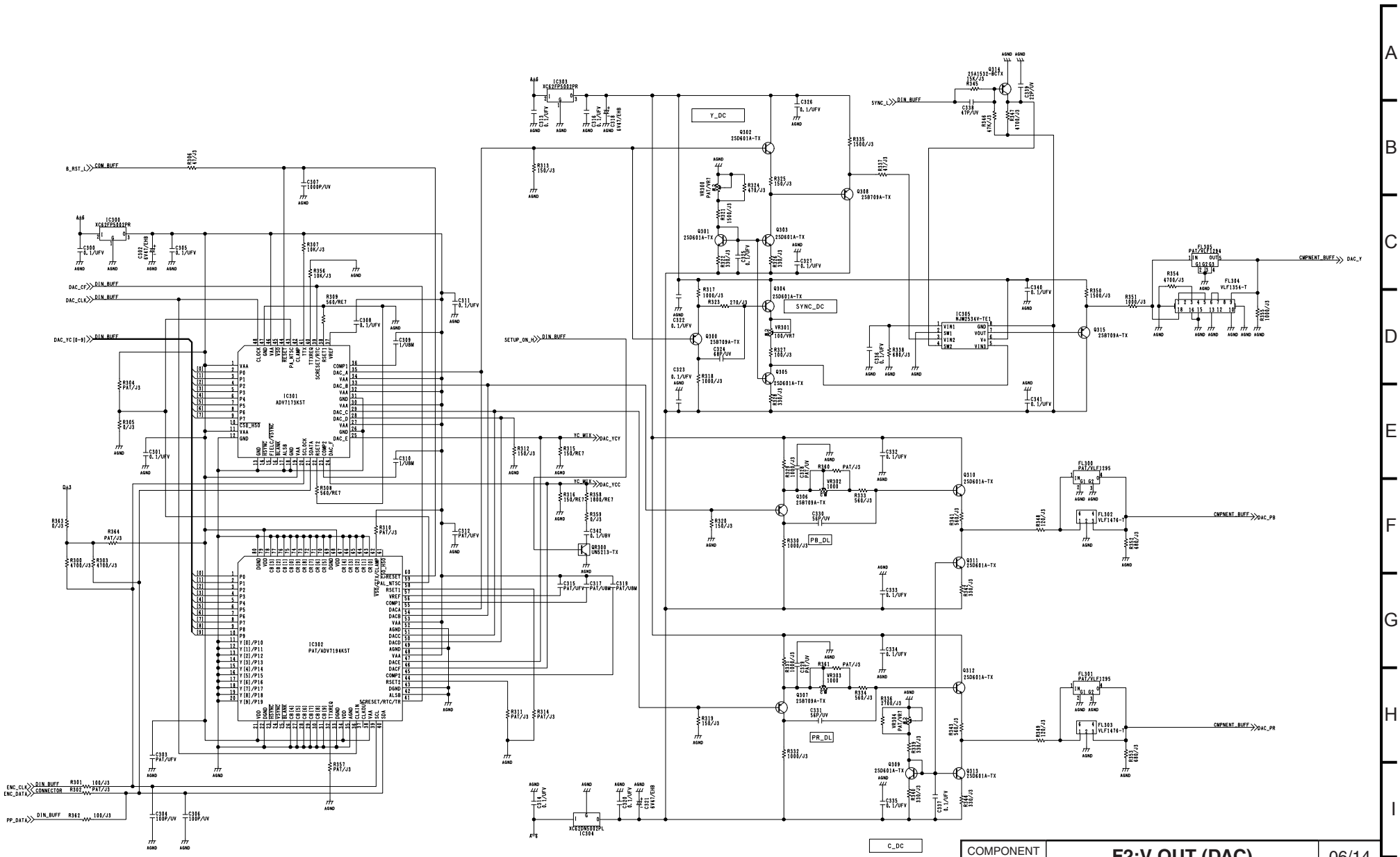
COMPONENT NAME	F2:V OUT (DIN_BUFF)		03/14
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83557B		KR30091 (3/14)	
		SCM012	



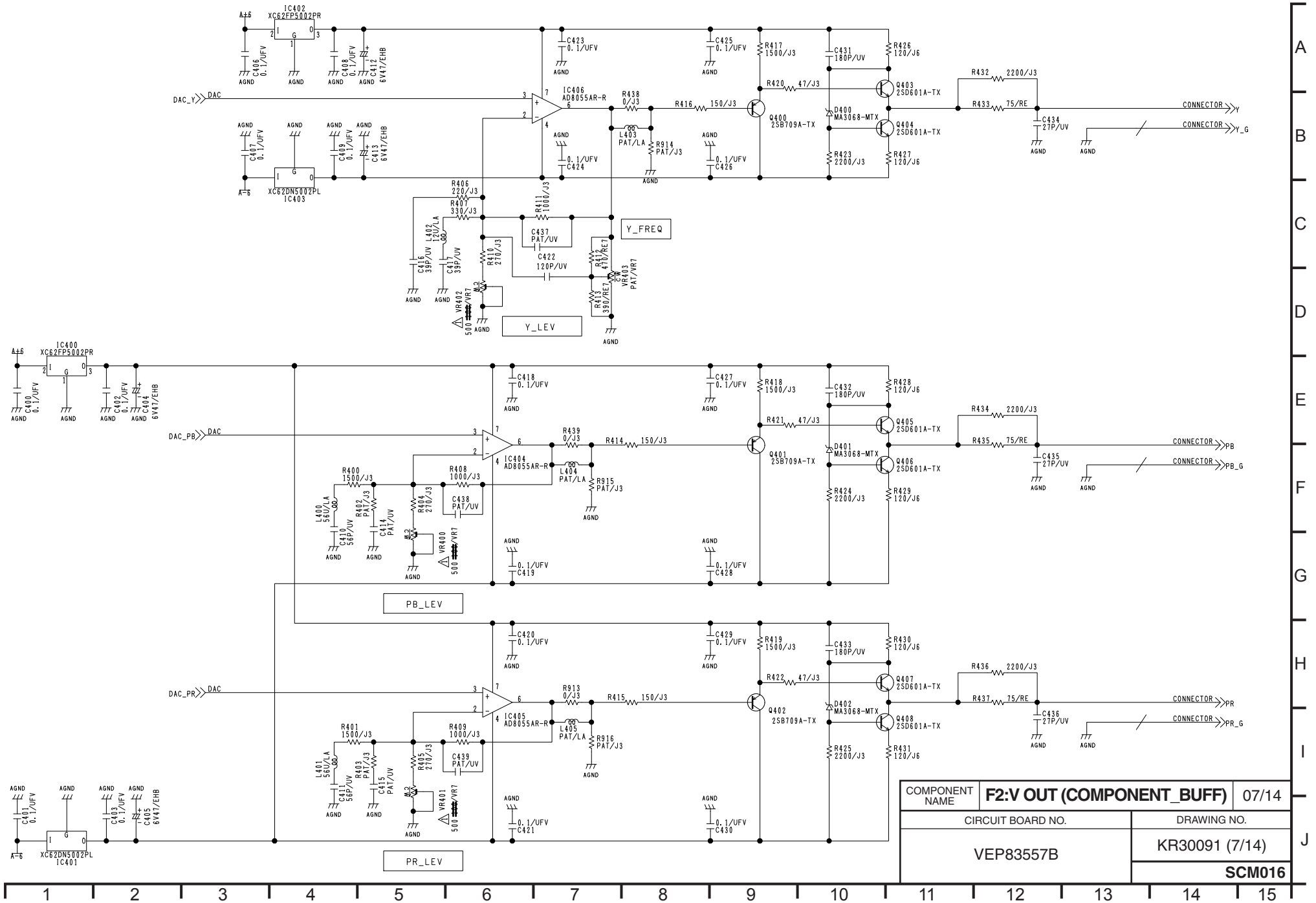
COMPONENT NAME	F2:V OUT (PROC)	04/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP83557B		KR30091 (4/14)
		SCM013



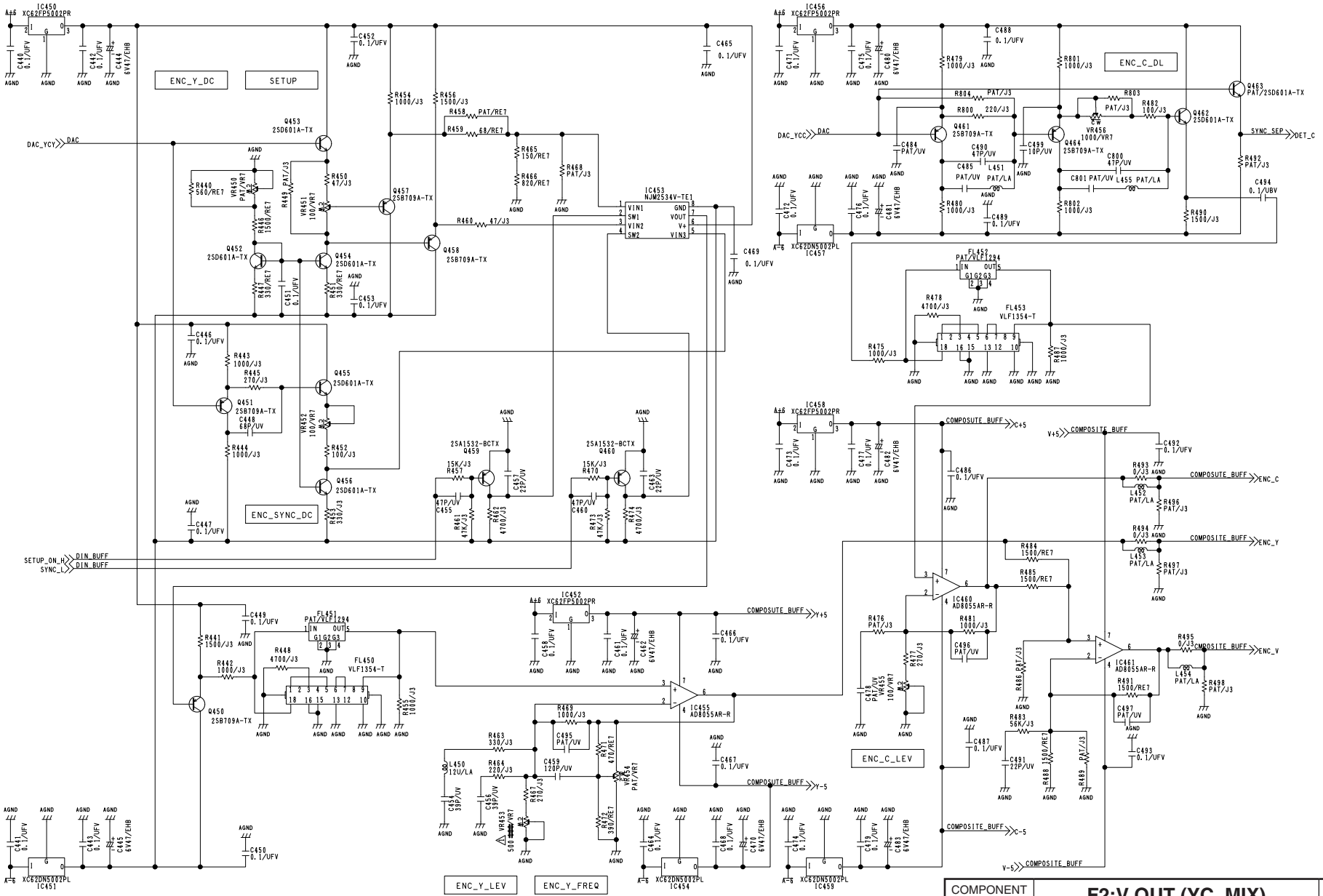
COMPONENT NAME	F2:V OUT (DOUT_BUFF)	05/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP83557B		KR30091 (5/14)
		SCM014



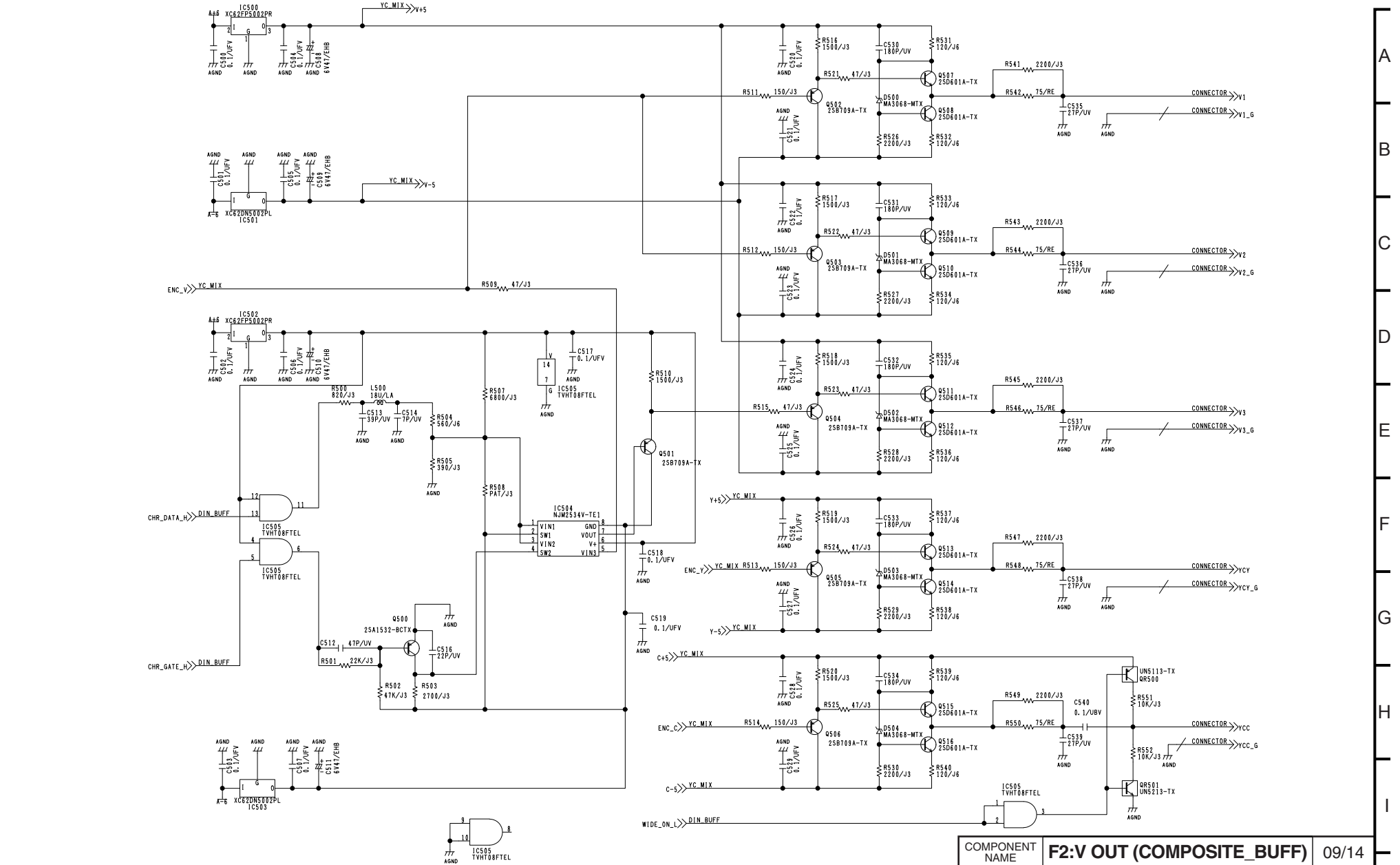
COMPONENT NAME	F2:V OUT (DAC)	06/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP83557B		KR30091 (6/14)
		SCM015



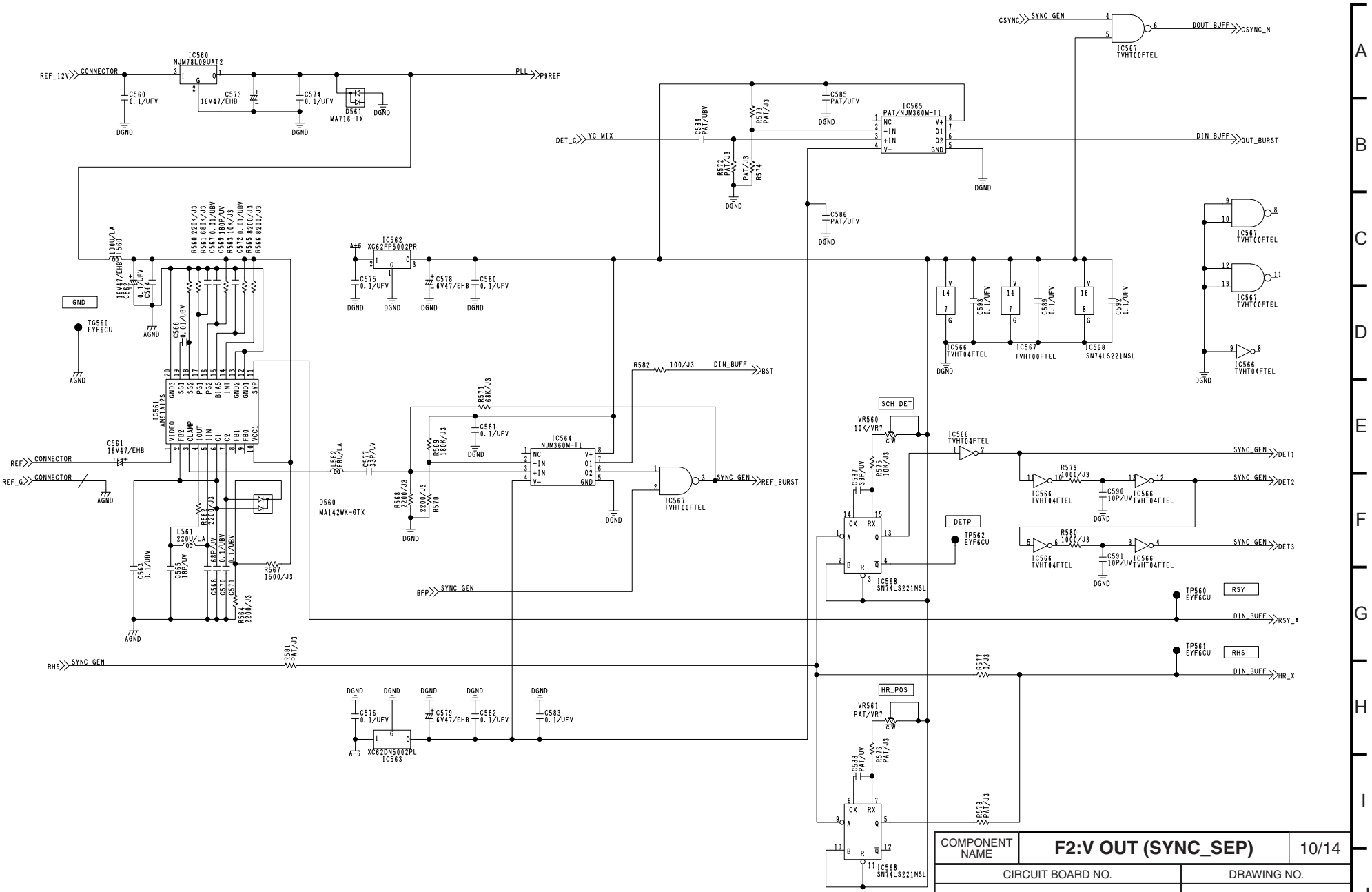
COMPONENT NAME	**F2:V OUT (COMPONENT_BUFF)**	07/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP83557B		KR30091 (7/14)
		SCM016



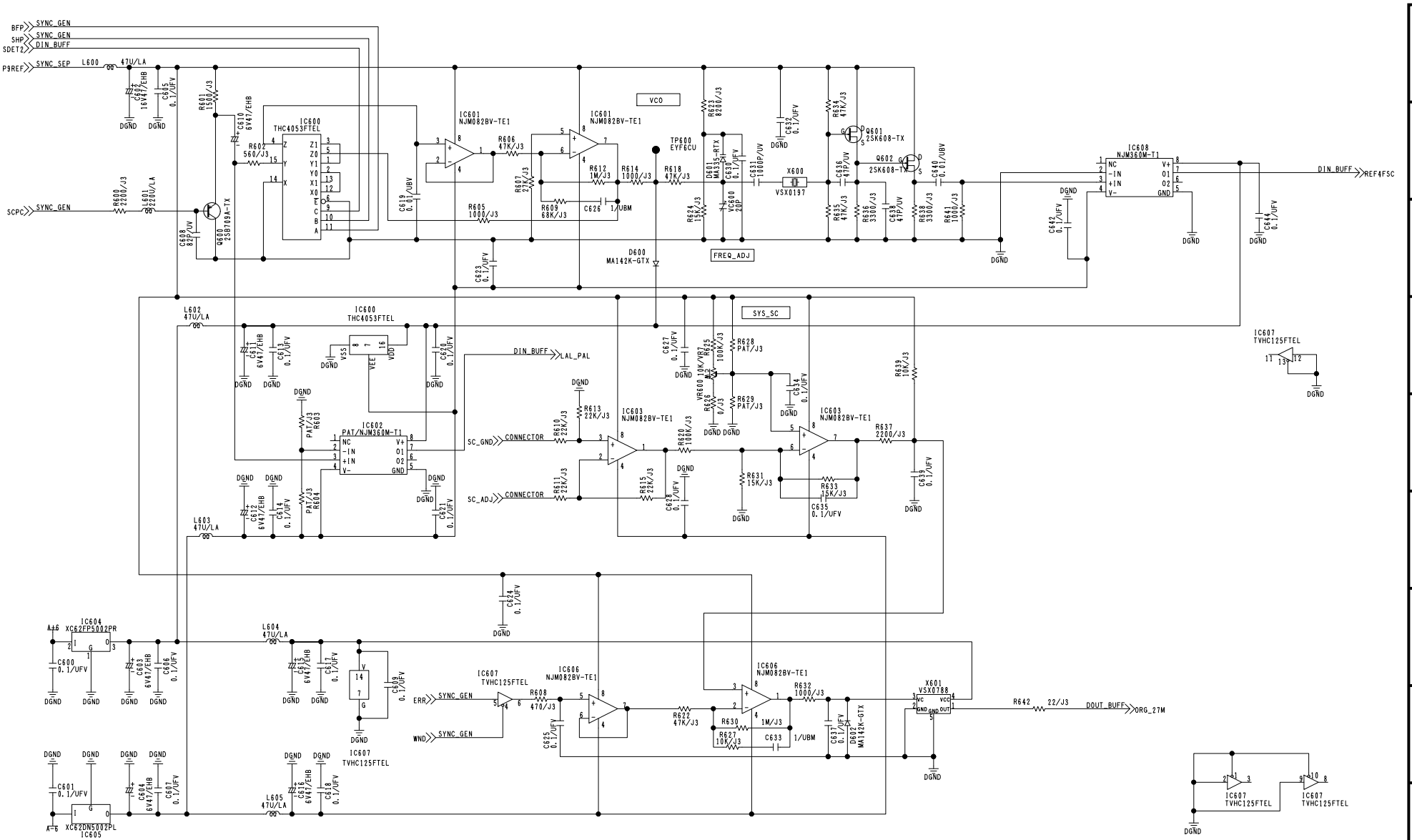
COMPONENT NAME	**F2:V OUT (YC_MIX)**	08/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83557B	KR30091 (8/14)	
	SCM017	



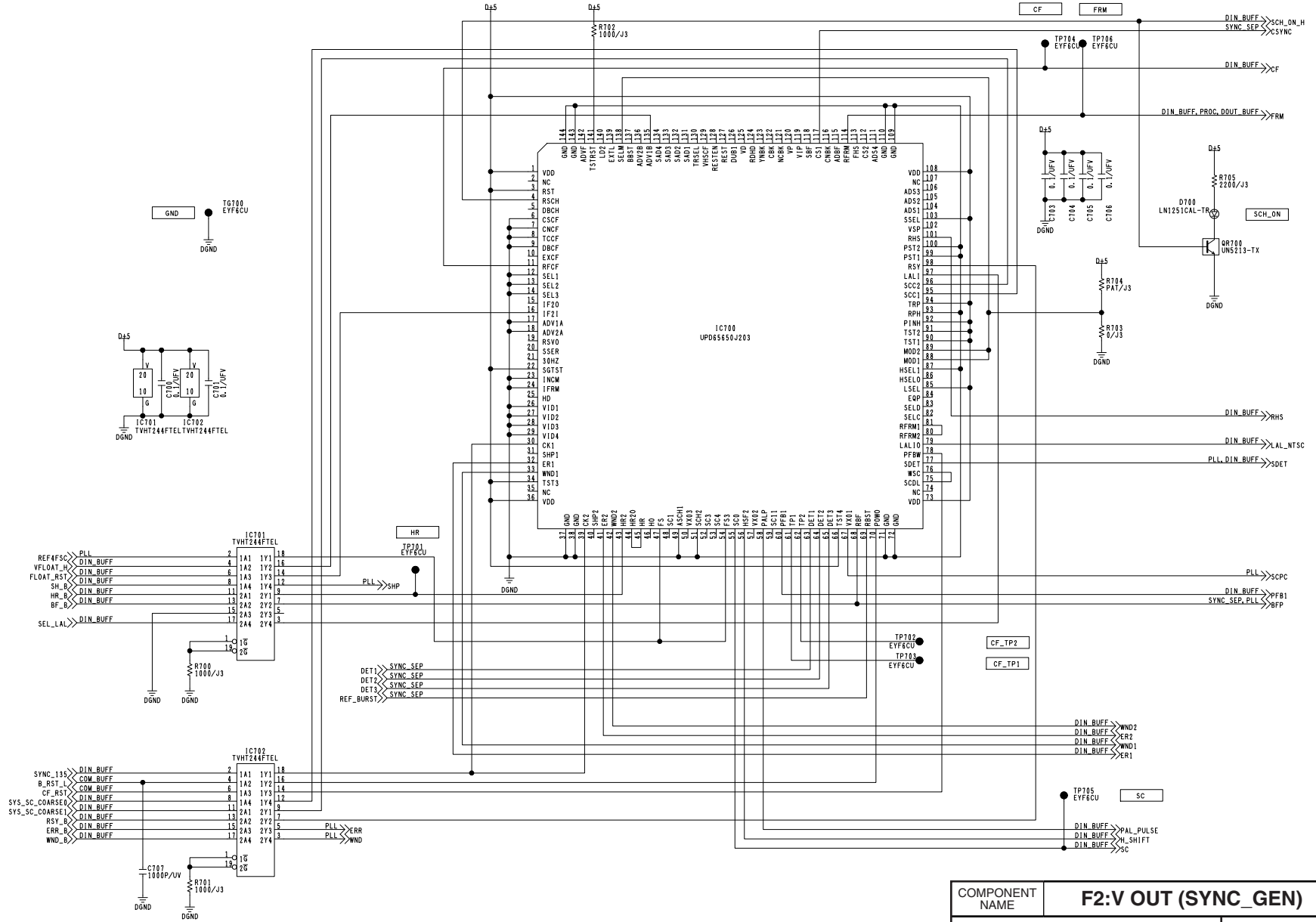
COMPONENT NAME	F2:V OUT (COMPOSITE_BUFF)	09/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP83557B		KR30091 (9/14)
		SCM018



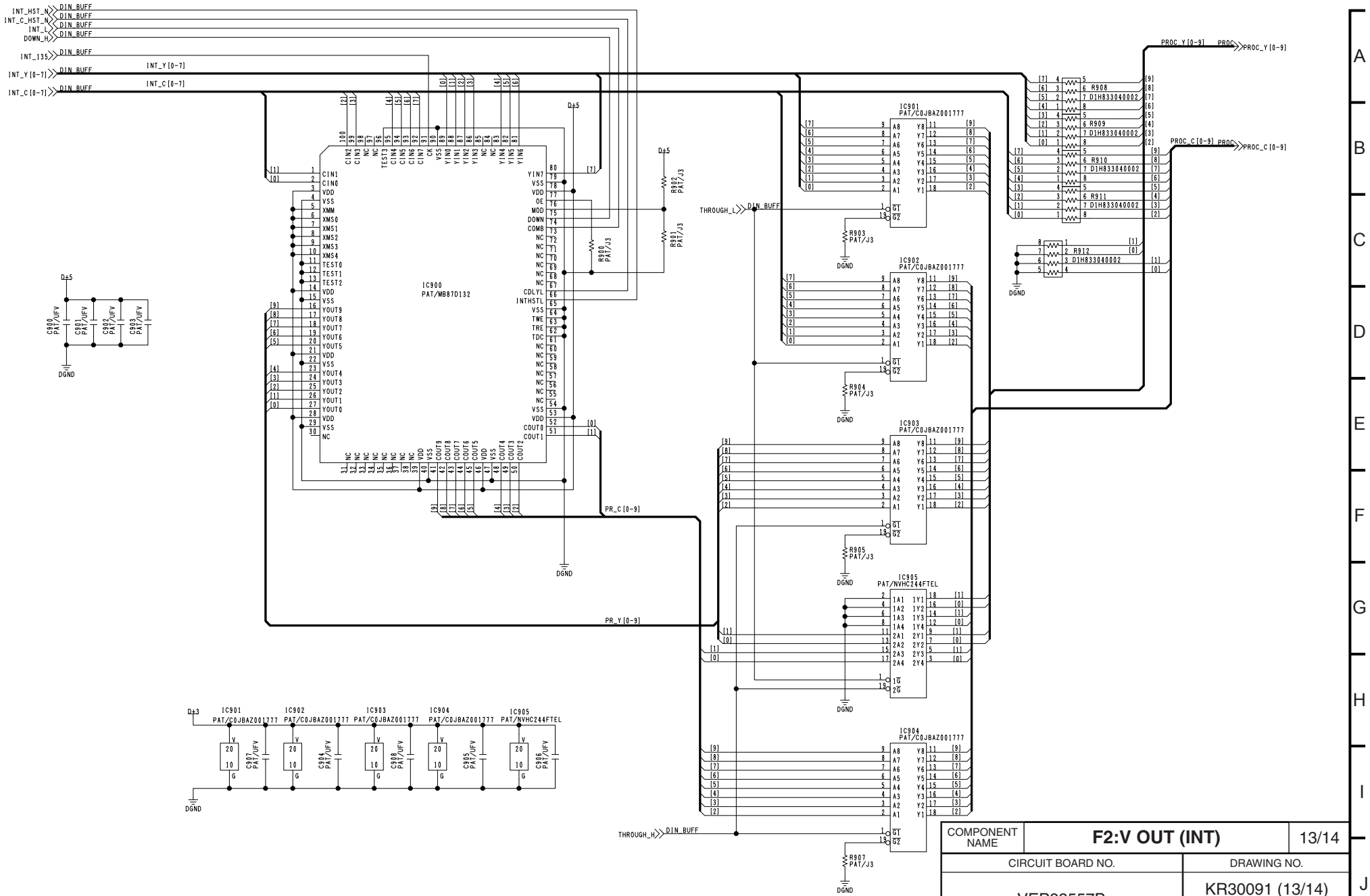
COMPONENT NAME	**F2:V OUT (SYNC_SEP)**	10/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP83557B		KR30091(10/14)
		SCM019



COMPONENT NAME	F2:V OUT (PLL)	11/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP83557B		KR30091 (11/14)
		SCM020



COMPONENT NAME	**F2:V OUT (SYNC_GEN)**	12/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83557B	KR30091 (12/14)	
	SCM021	



COMPONENT NAME	**F2:V OUT (INT)**	13/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83557B	KR30091 (13/14)	
	SCM022	

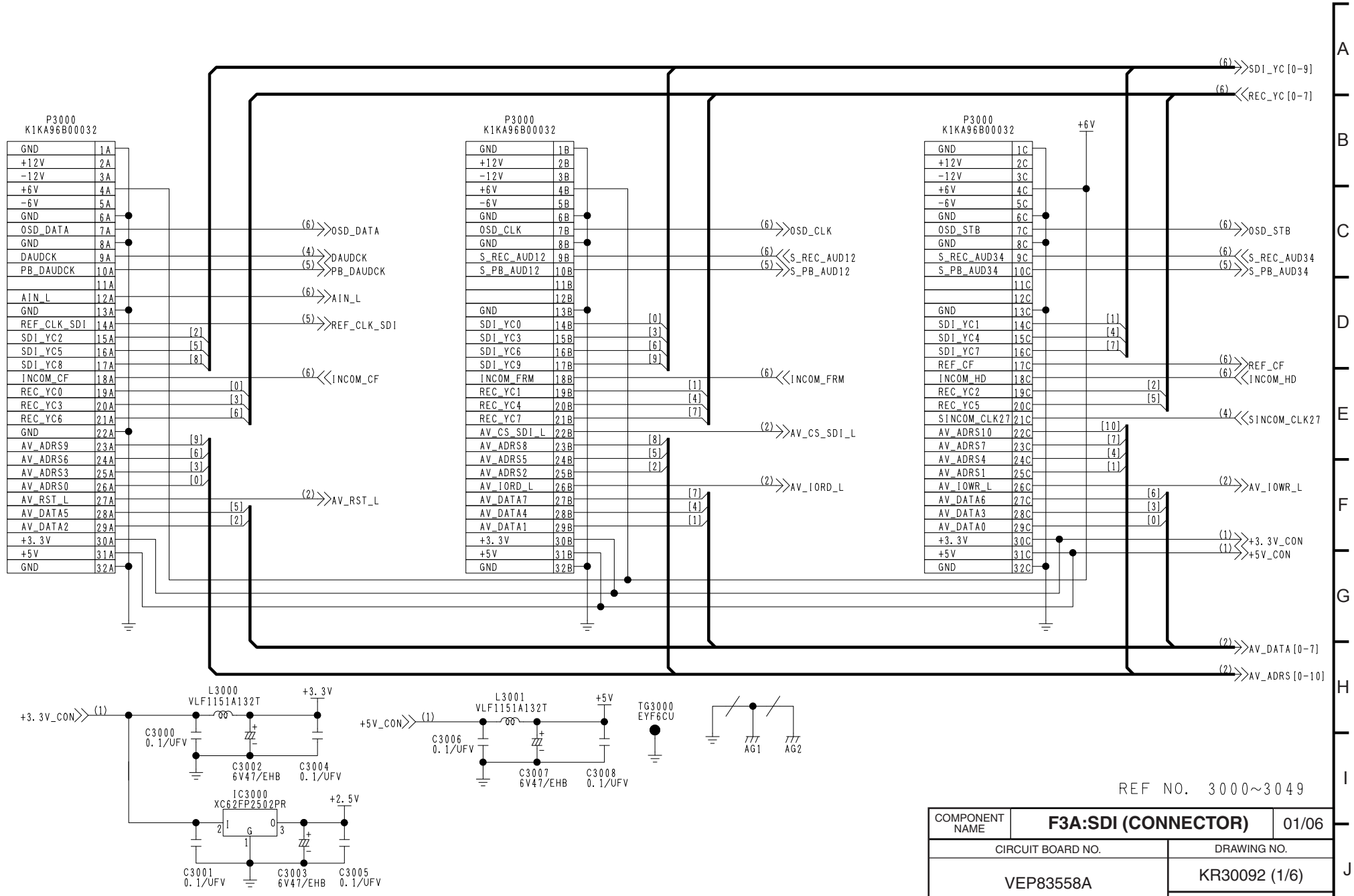
REF	AJ-D455E VEP83557B
ID202(ID0)	VSI3560A
R200	ERJ3GEY0R00V
R201	ERJ3GEY0R00V
R202	ERJ3GEY0R00V
R203	–
R204	–
R205	–
QR300	–
C342	–
R358	–
R359	–
VR451	–
Q457	–
R450	–
R454	–
R459	–
R465	–
R466	–
R449	ERJ3RBD151V
R468	ERJ3GEY0R00V
Q463	2SD601A-TX
R492	ERJ3GEYJ152V

REF	AJ-D455E VEP83557B
C584	F1H1C104A042
C585	ECUV1E104ZFV
C586	ECUV1E104ZFV
R572	ERJ3GEYJ103V
R573	ERJ3GEYJ103V
R574	ERJ3GEYJ271V
IC565	C0BBZB000002
L562	VLQ0163J390
X600	VSX0316
R603	ERJ3GEYJ102V
R604	ERJ3GEYJ103V
IC602	C0BBZB000002
R703	–
R704	ERJ3GEY0R00V
C499	–
R477	ERJ3GEYJ181V
R481	ERJ3GEYJ681V
R622	ERJ3GEYJ104V

COMPONENT NAME	F2:V OUT (PARTS_TABLE)	14/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP83557B		KR30091 (14/14)
		SCM023

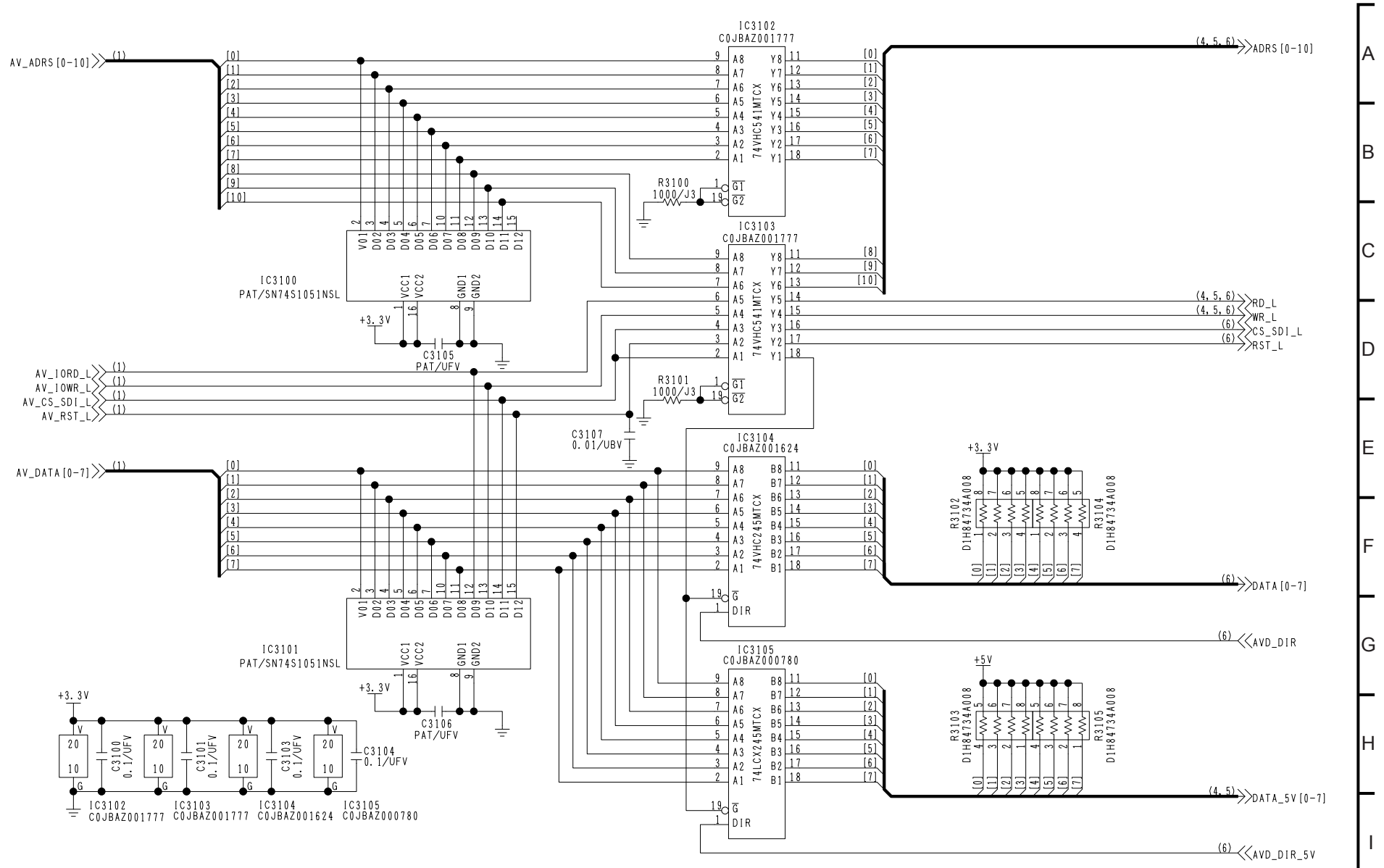
A B C D E F G H I J

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



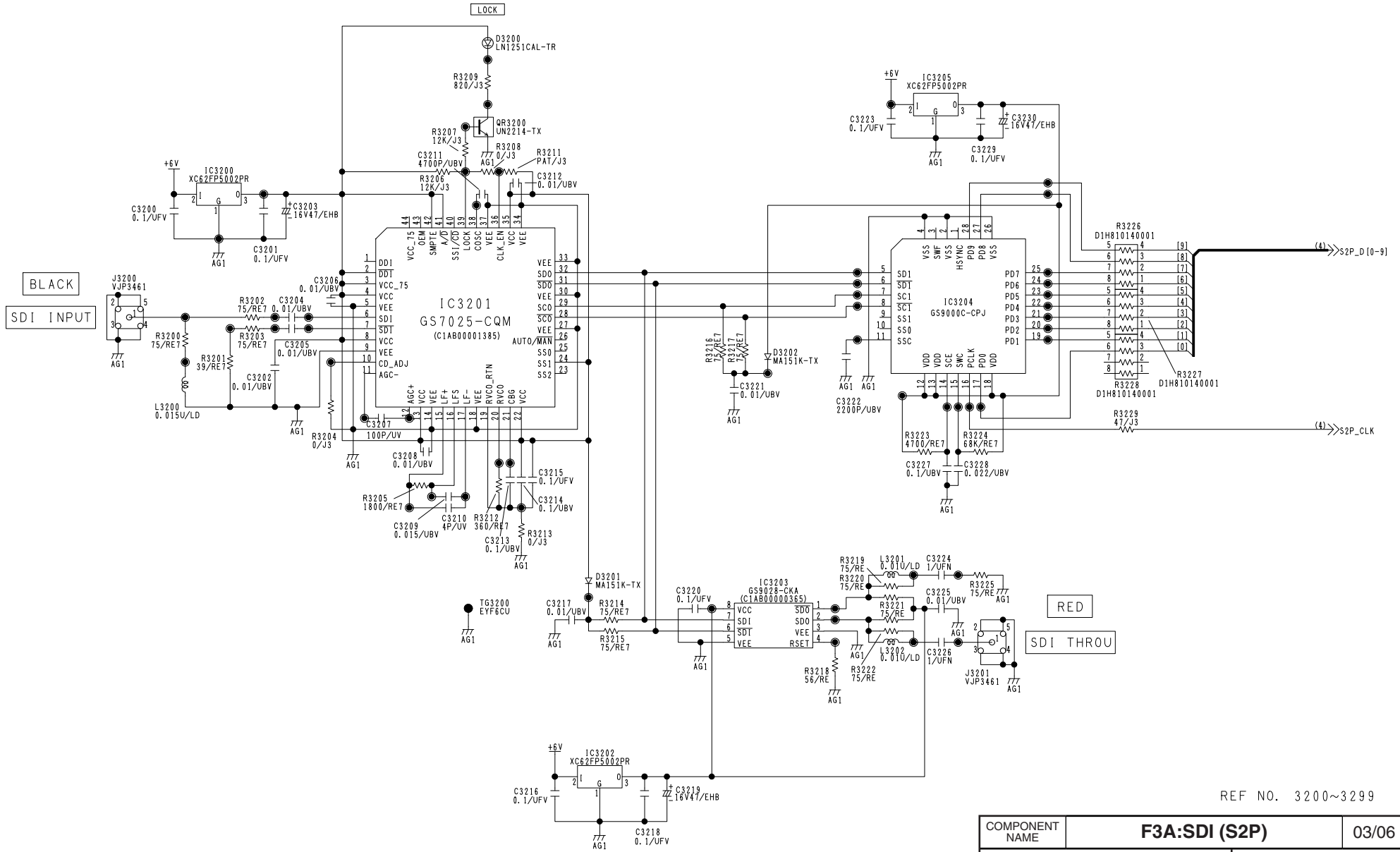
REF NO. 3000~3049

COMPONENT NAME	F3A:SDI (CONNECTOR)	01/06
CIRCUIT BOARD NO.		DRAWING NO.
VEP83558A		KR30092 (1/6)
		SCM024

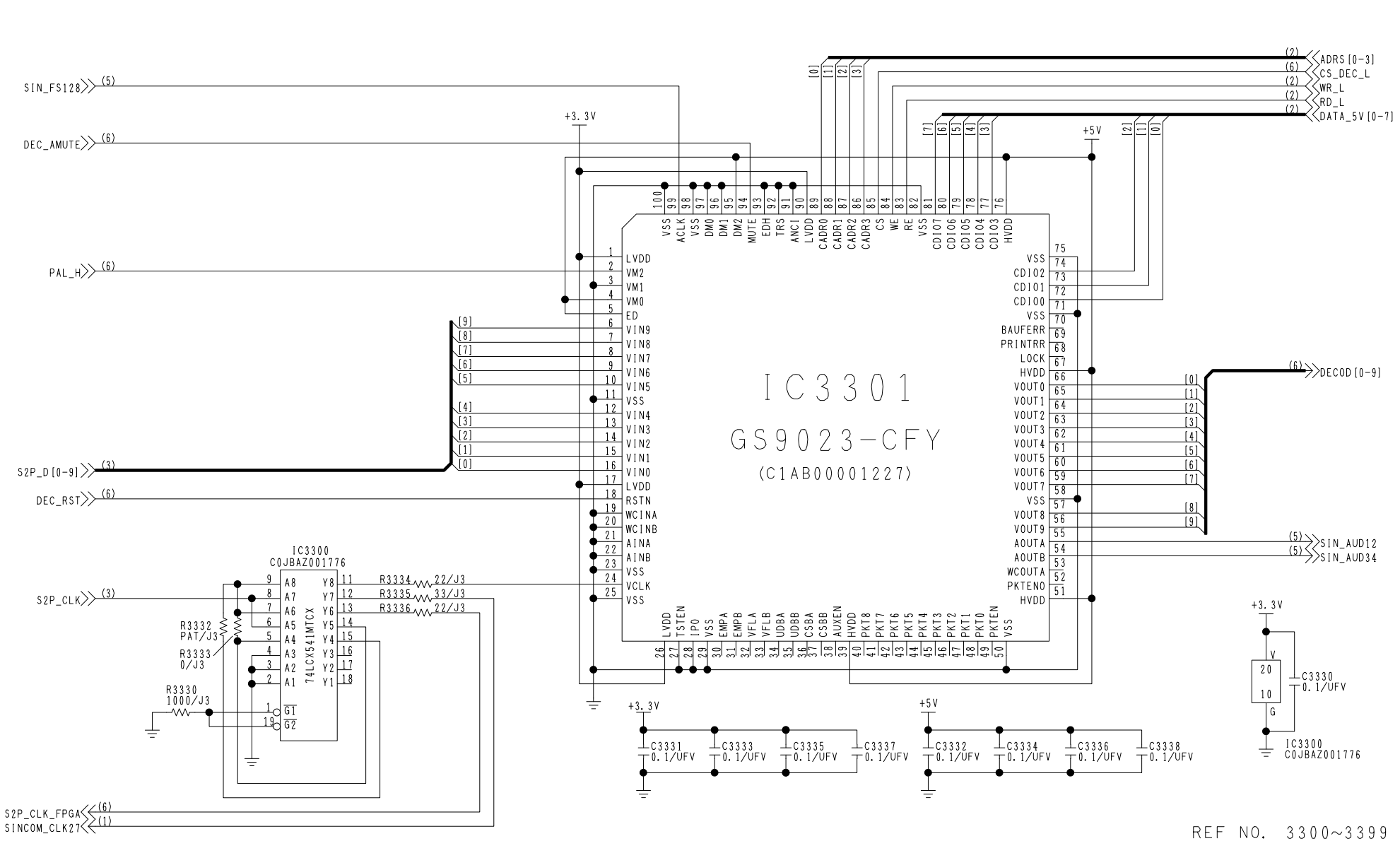


REF NO. 3100~3199

COMPONENT NAME	F3A:SDI (SYSIO)	02/06
CIRCUIT BOARD NO.		DRAWING NO.
VEP83558A		KR30092 (2/6)
		SCM025

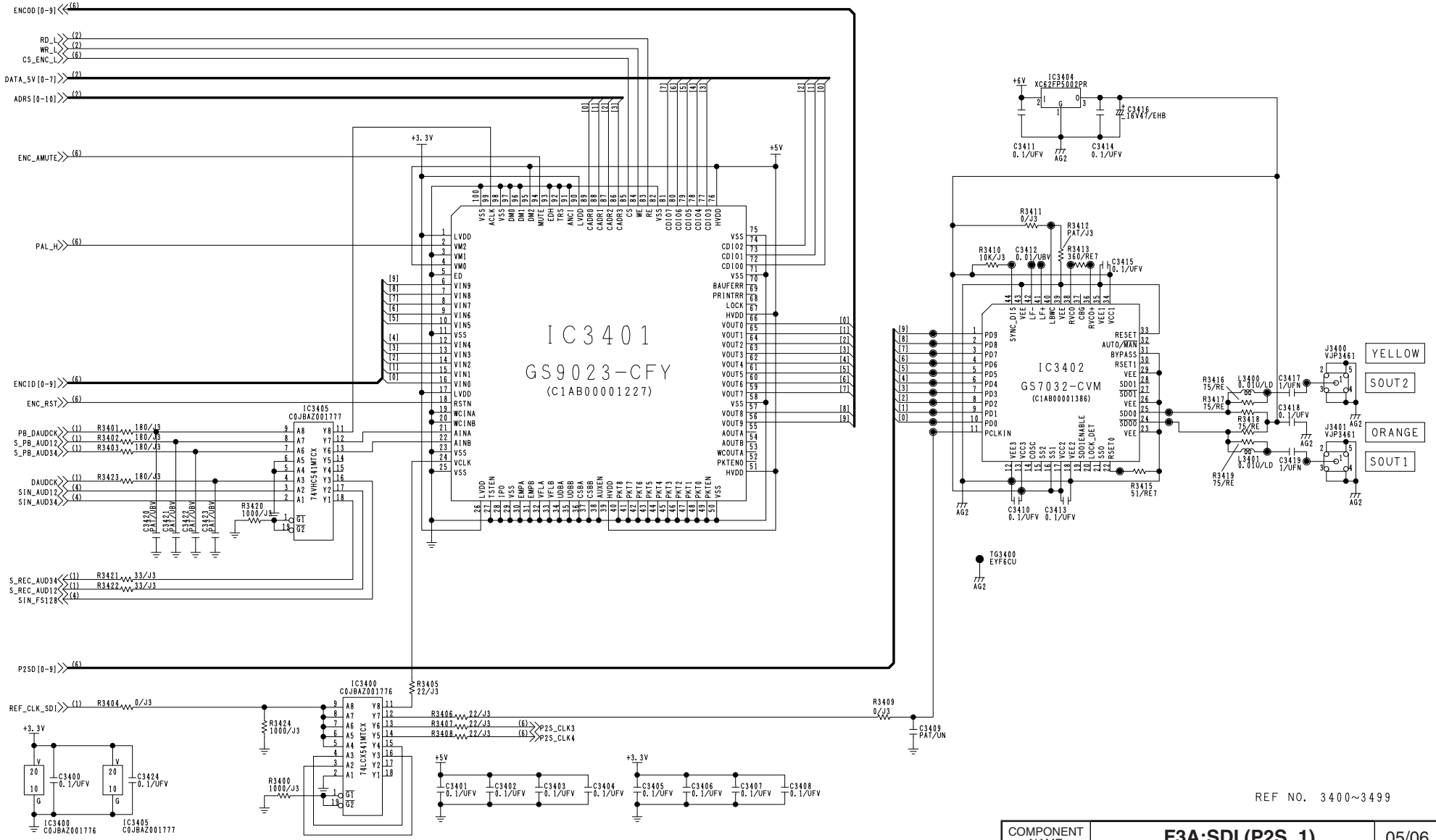


COMPONENT NAME	F3A:SDI (S2P)	03/06
CIRCUIT BOARD NO.		DRAWING NO.
VEP83558A		KR30092 (3/6)
		SCM026



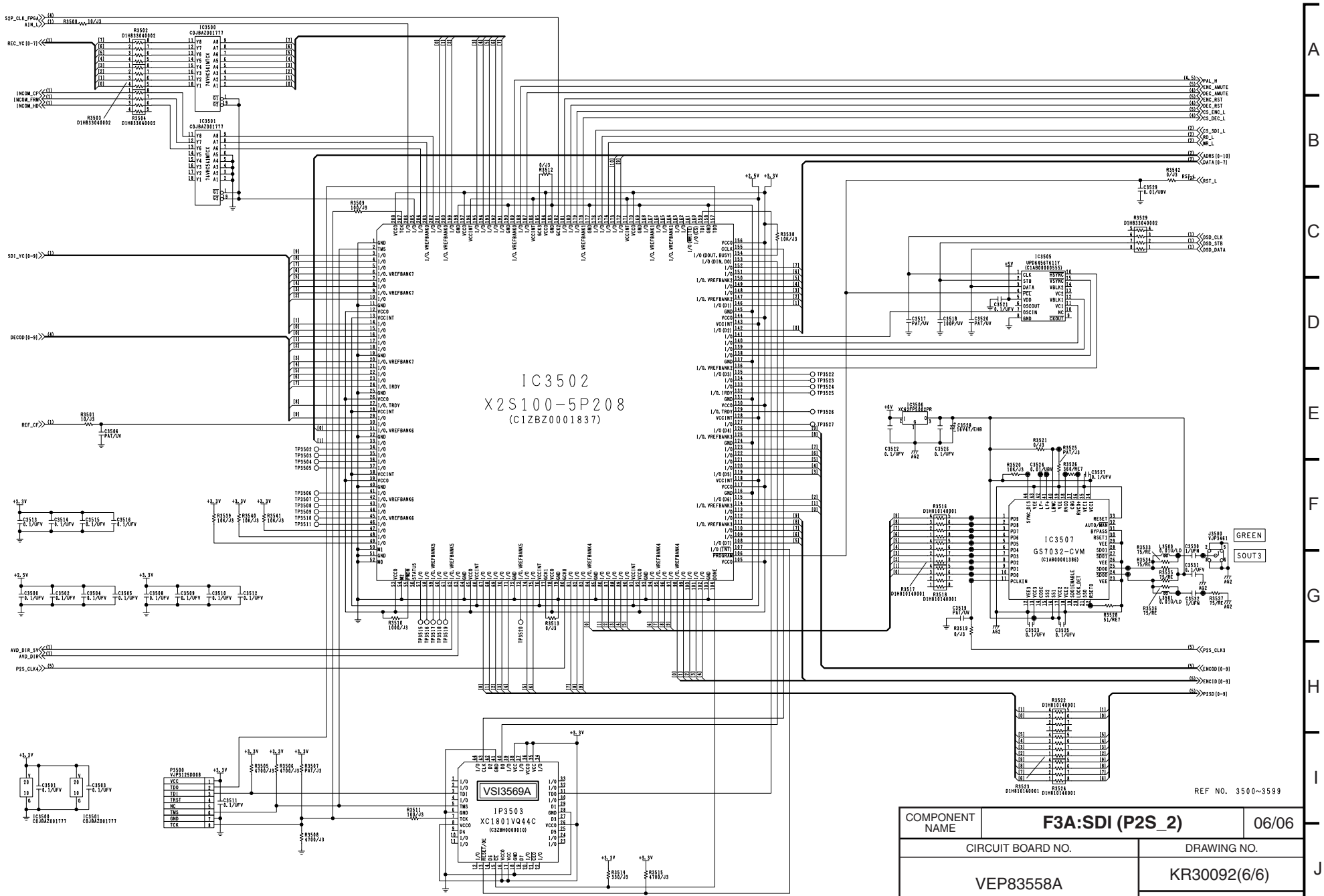
REF NO. 3300~3399

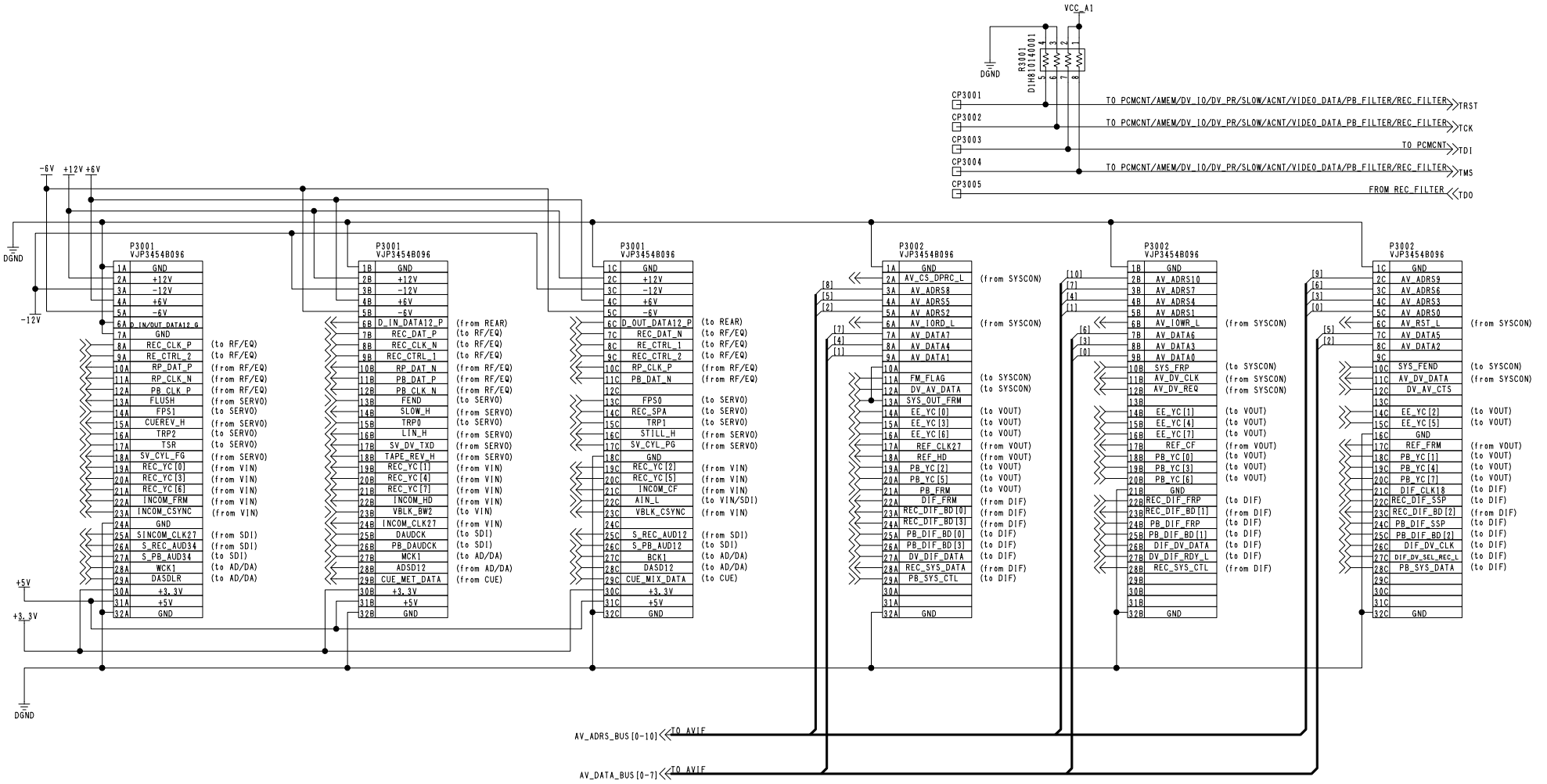
COMPONENT NAME	F3A:SDI (DECODER)	04/06
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83558A	KR30092 (4/6)	
	SCM027	



REF NO. 3400~3499

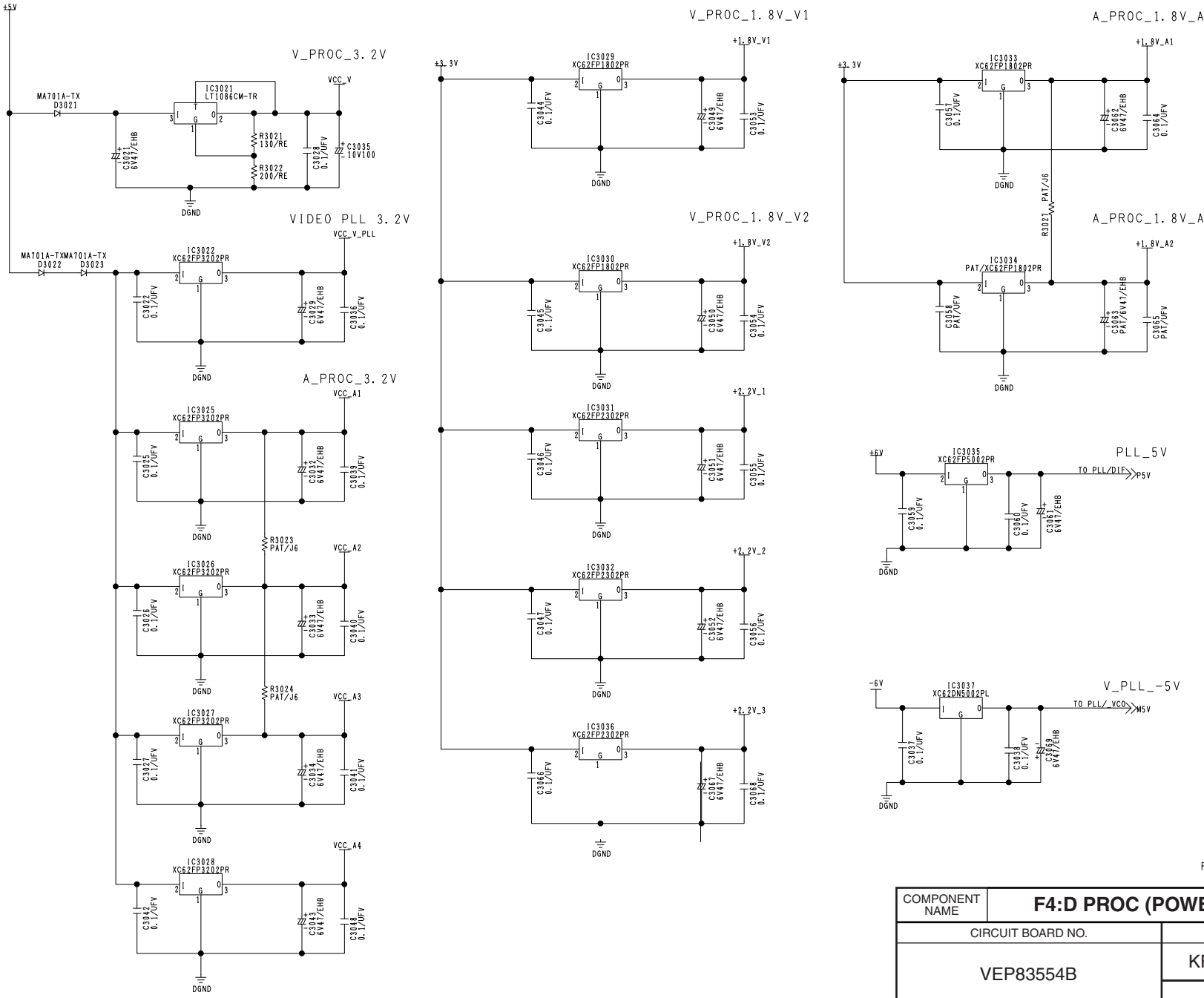
COMPONENT NAME	F3A:SDI (P2S_1)	05/06
CIRCUIT BOARD NO.		DRAWING NO.
VEP83558A		KR30092 (5/6)
		SCM028

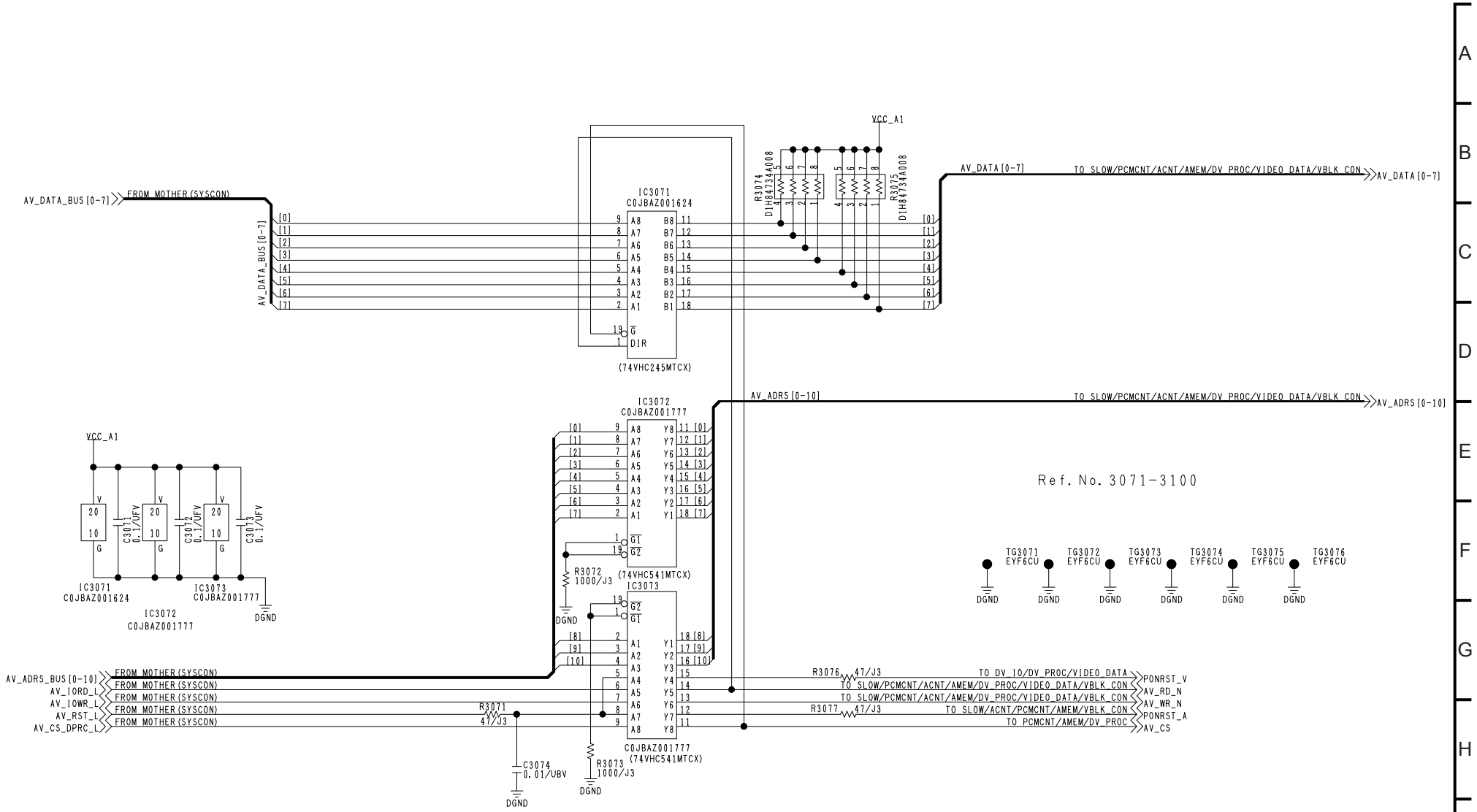

IC3502
X2S100-5P208
(C1ZBZ0001837)
IC3507
GS7032-CVM
(C1AB0001386)
VSI3569A
IP3503
XC1801VQ44C
(C3ZBH0000010)
IC3505
UPD64567611Y
(C1AB0008000553)
IC3506
XC4EPP3662PR
REF NO. 3500~3599
GREEN
SOUT3
COMPONENT NAME
F3A:SDI (P2S_2)
06/06
CIRCUIT BOARD NO.
VEP83558A
DRAWING NO.
KR30092(6/6)
SCM029



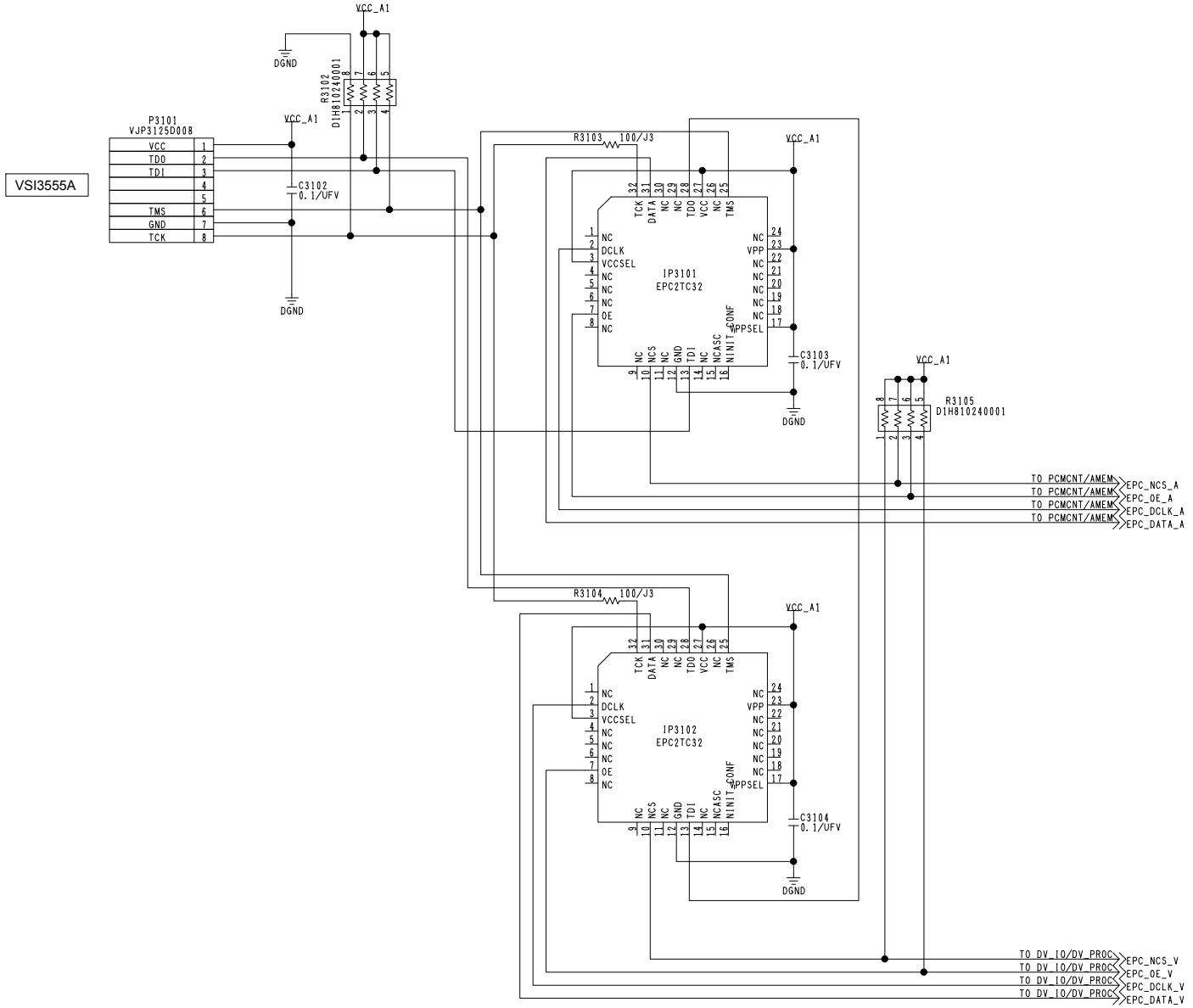
Ref No. 3001-3020

COMPONENT NAME	F4:D PROC (MOTHER)	01/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088 (1/27)
		SCM030


+5V
V_PROC_3. 2V
MA701A-TX
D3021
IC3021
LT1086CM-TR
VCC_V
R3021
130/RE
R3022
200/RE
C3028
0.1/UFV
C3035
10V100
C3027
6V47/EHB
DGND
VIDEO PLL 3. 2V
MA701A-TX
D3022
MA701A-TX
D3023
IC3022
XC62FP3202PR
VCC_V_PLL
C3022
0.1/UFV
C3029
6V47/EHB
C3036
0.1/UFV
A_PROC_3. 2V
IC3025
XC62FP3202PR
VCC_A1
C3025
0.1/UFV
C3032
6V47/EHB
C3039
0.1/UFV
R3023
PAT/J6
IC3026
XC62FP3202PR
VCC_A2
C3026
0.1/UFV
C3033
6V47/EHB
C3040
0.1/UFV
R3024
PAT/J6
IC3027
XC62FP3202PR
VCC_A3
C3027
0.1/UFV
C3034
6V47/EHB
C3041
0.1/UFV
IC3028
XC62FP3202PR
VCC_A4
C3042
0.1/UFV
C3043
6V47/EHB
C3048
0.1/UFV
V_PROC_1. 8V_V1
+3. 3V
IC3029
XC62FP1802PR
+1. 8V_V1
C3044
0.1/UFV
C3049
6V47/EHB
C3053
0.1/UFV
V_PROC_1. 8V_V2
IC3030
XC62FP1802PR
+1. 8V_V2
C3045
0.1/UFV
C3050
6V47/EHB
C3054
0.1/UFV
IC3031
XC62FP2302PR
+2. 2V_1
C3046
0.1/UFV
C3051
6V47/EHB
C3055
0.1/UFV
IC3032
XC62FP2302PR
+2. 2V_2
C3047
0.1/UFV
C3052
6V47/EHB
C3056
0.1/UFV
IC3036
XC62FP2302PR
+2. 2V_3
C3066
0.1/UFV
C3067
6V47/EHB
C3068
0.1/UFV
A_PROC_1. 8V_A1
+3. 3V
IC3033
XC62FP1802PR
+1. 8V_A1
C3057
0.1/UFV
C3062
6V47/EHB
C3064
0.1/UFV
R3027
PAT/J6
A_PROC_1. 8V_A2
IC3034
PAT/XC62FP1802PR
+1. 8V_A2
C3058
PAT/UFV
C3063
PAT/6V47/EHB
C3065
PAT/UFV
PLL_5V
±6V
IC3035
XC62FP5002PR
TO PLL/DIF
P5V
C3059
0.1/UFV
C3060
0.1/UFV
C3061
6V47/EHB
V_PLL_-5V
-6V
IC3037
XC62DN5002PL
TO PLL/ VCO
M5V
C3037
0.1/UFV
C3038
0.1/UFV
C3069
6V47/EHB
Ref No. 3021-3070
COMPONENT NAME
F4:D PROC (POWER)
02/27
CIRCUIT BOARD NO.
VEP83554B
DRAWING NO.
KR30088 (2/27)
SCM031

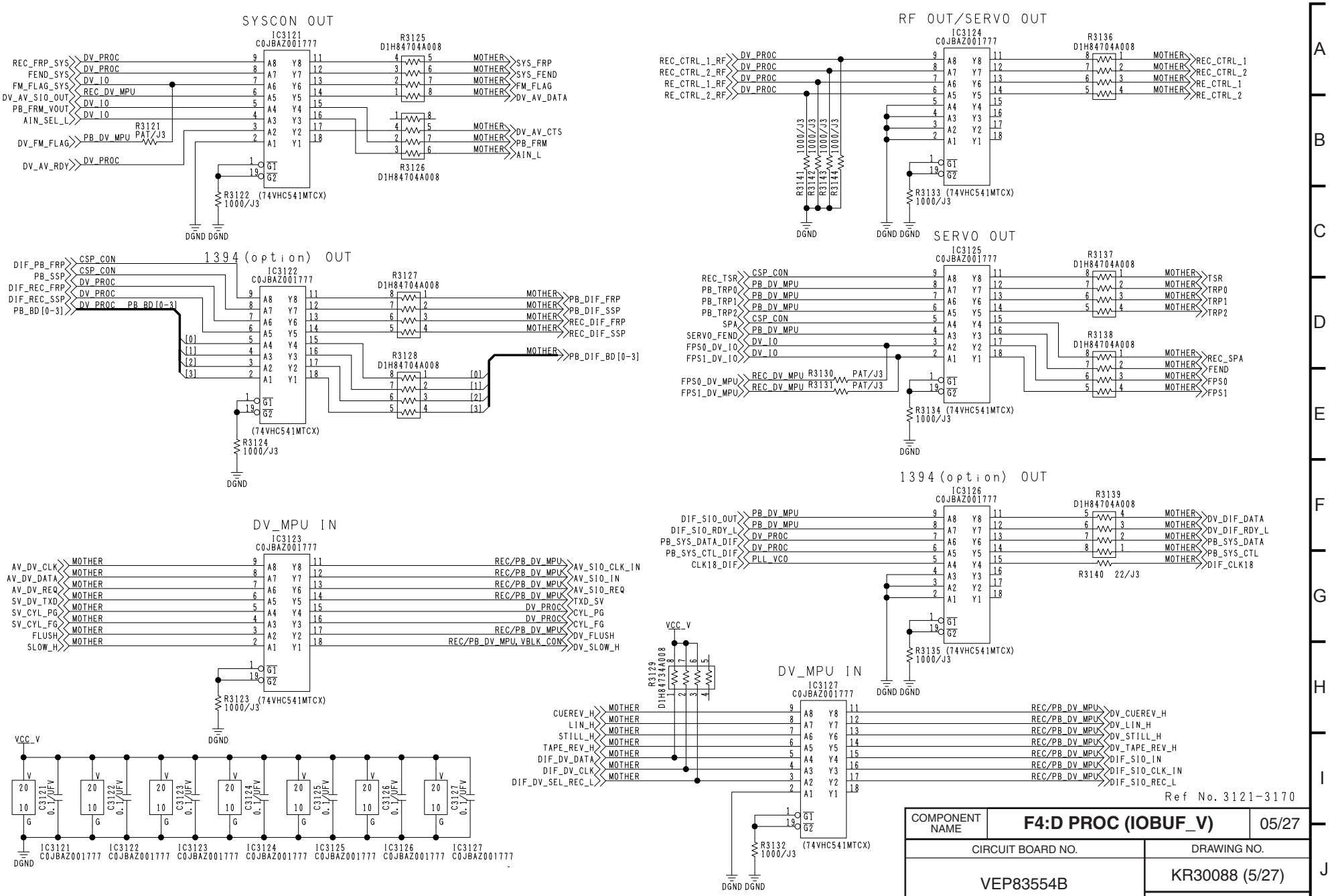


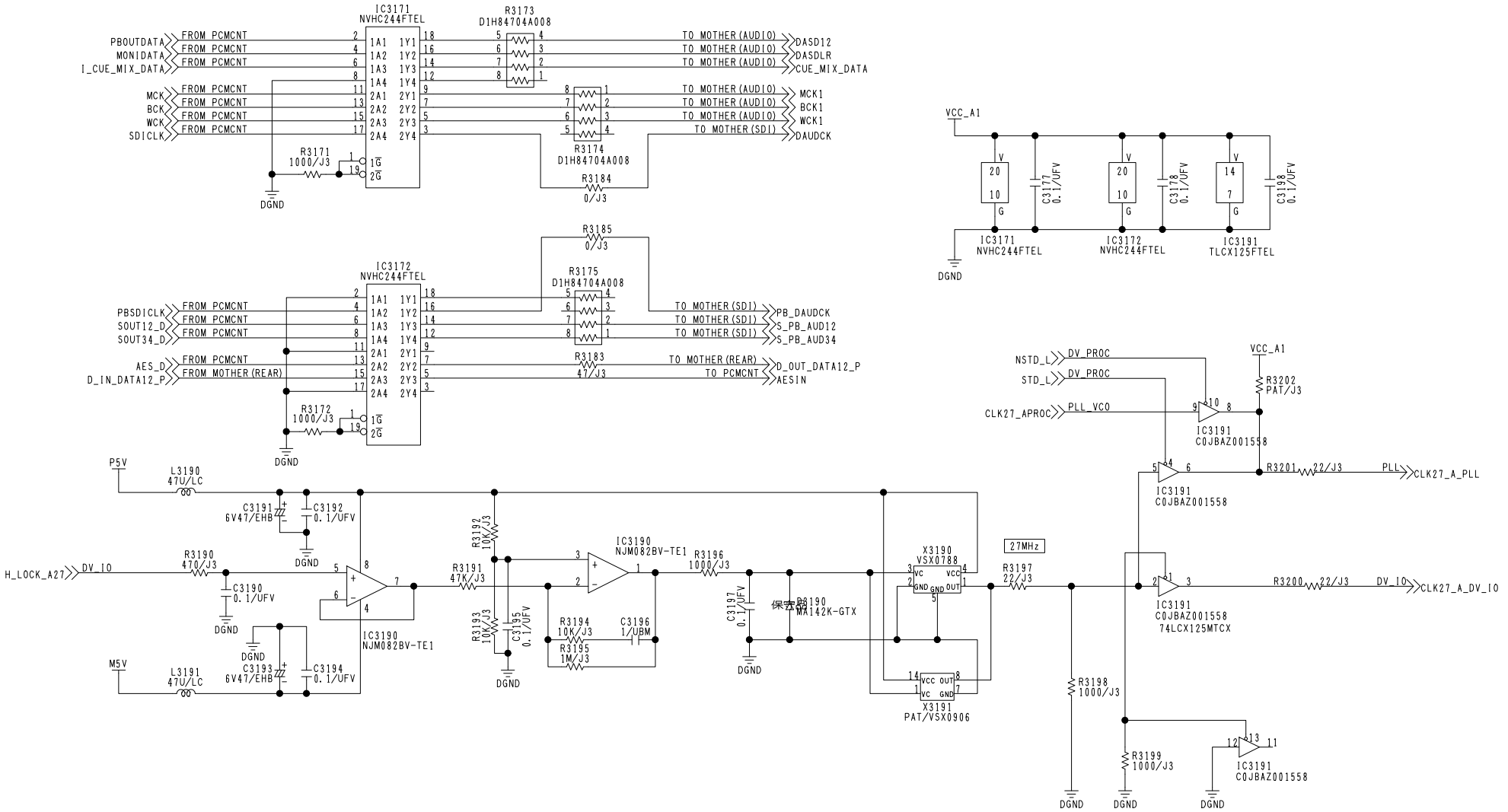
COMPONENT NAME	F4:D PROC (AVIF)	03/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088 (3/27)
		SCM032



Ref. No. 3101-3120

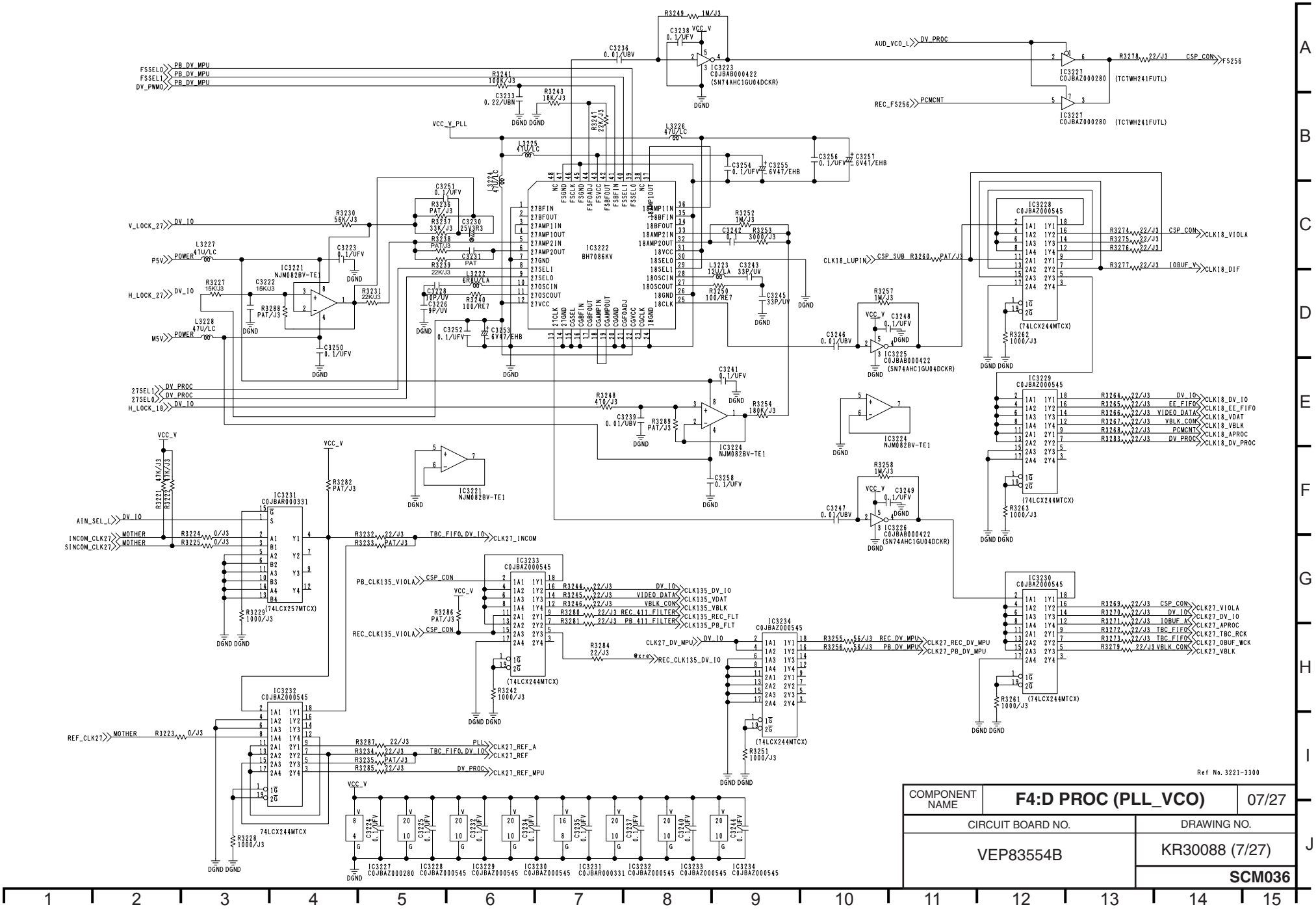
COMPONENT NAME	F4:D PROC (ISP)	04/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088 (4/27)
		SCM033

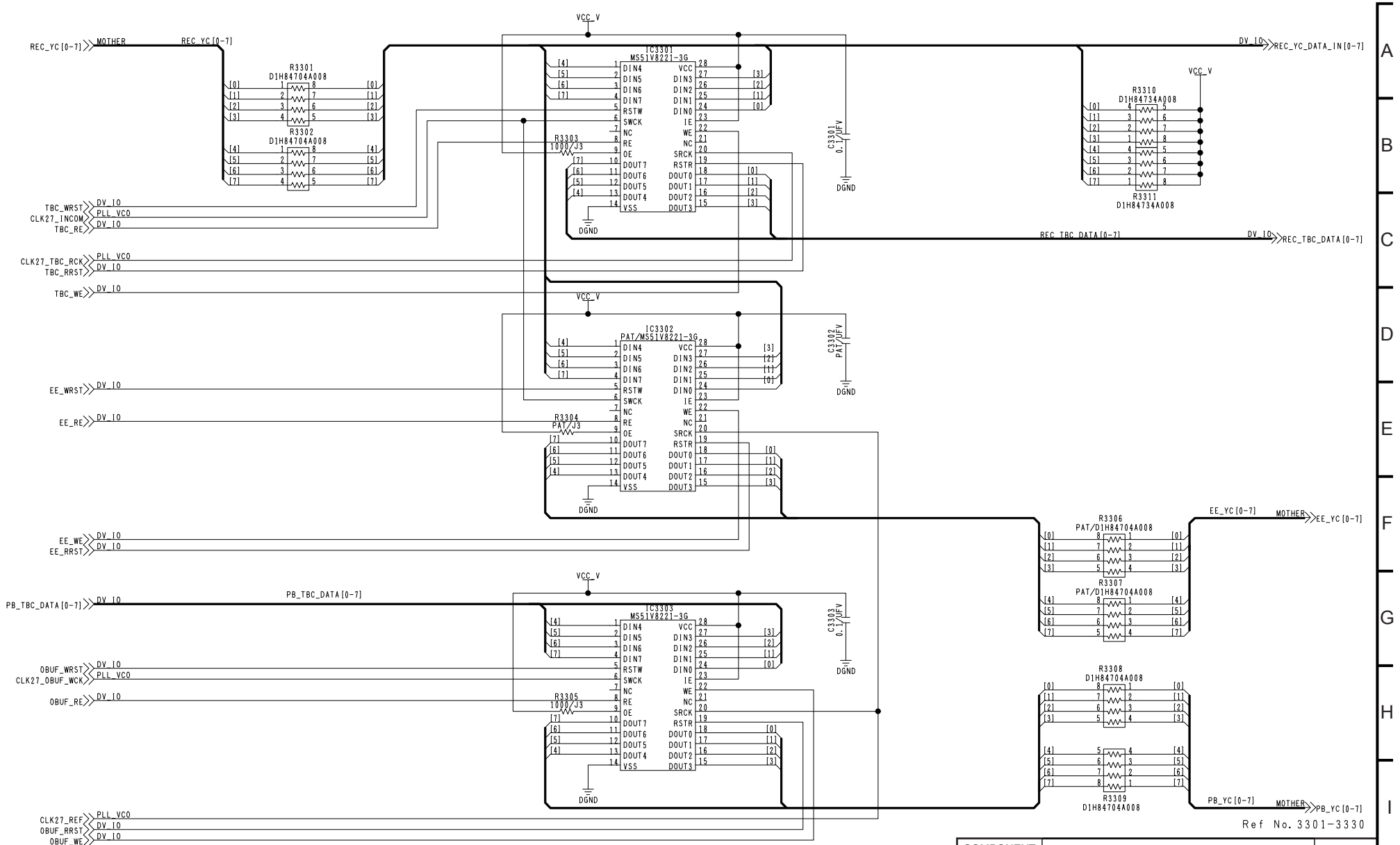

SYSCON OUT
IC3121
C0JBAZ001777
R3125
D1H84704A008
REC_FRP_SYS
FEND_SYS
FM_FLAG_SYS
DV_AV_SIO_OUT
PB_FRM_VOUT
AIN_SEL_L
DV_FM_FLAG
DV_AV_RDY
DV_PROC
DV_IO
REC_DV_MPU
PB_DV_MPU
R3121
PAT/J3
R3122 (74VHC541MTCX)
1000/J3
R3126
D1H84704A008
MOTHER
SYS_FRP
SYS_FEND
FM_FLAG
DV_AV_DATA
DV_AV_CTS
PB_FRM
AIN_L
DGND
RF OUT/SERVO OUT
IC3124
C0JBAZ001777
R3136
D1H84704A008
REC_CTRL_1_RF
REC_CTRL_2_RF
RE_CTRL_1_RF
RE_CTRL_2_RF
REC_CTRL_1
REC_CTRL_2
RE_CTRL_1
RE_CTRL_2
R3141
R3142
R3143
R3144
1000/J3
R3133 (74VHC541MTCX)
1394 (option) OUT
IC3122
C0JBAZ001777
R3127
D1H84704A008
R3128
D1H84704A008
DIF_PB_FRP
PB_SSP
DIF_REC_FRP
DIF_REC_SSP
PB_BD[0-3]
CSP_CON
DV_PROC
PB_BD[0-3]
PB_DIF_FRP
PB_DIF_SSP
REC_DIF_FRP
REC_DIF_SSP
PB_DIF_BD[0-3]
(74VHC541MTCX)
R3124
1000/J3
SERVO OUT
IC3125
C0JBAZ001777
R3137
D1H84704A008
R3138
D1H84704A008
REC_TSR
PB_TRP0
PB_TRP1
PB_TRP2
SPA
SERVO_FEND
FPS0_DV_IO
FPS1_DV_IO
FPS0_DV_MPU
FPS1_DV_MPU
PB_DV_MPU
CSP_CON
DV_IO
REC_DV_MPU
R3130
R3131
PAT/J3
TSR
TRP0
TRP1
TRP2
REC_SPA
FEND
FPS0
FPS1
R3134 (74VHC541MTCX)
1000/J3
DV_MPU IN
IC3123
C0JBAZ001777
AV_DV_CLK
AV_DV_DATA
AV_DV_REQ
SV_DV_TXD
SV_CYL_PG
SV_CYL_FG
FLUSH
SLOW_H
MOTHER
REC/PB_DV_MPU
AV_SIO_CLK_IN
AV_SIO_IN
AV_SIO_REQ
TXD_SV
CYL_PG
CYL_FG
DV_FLUSH
DV_SLOW_H
DV_PROC
REC/PB_DV_MPU, VBLK_CON
R3123 (74VHC541MTCX)
1000/J3
1394 (option) OUT
IC3126
C0JBAZ001777
R3139
D1H84704A008
DIF_SIO_OUT
DIF_SIO_RDY_L
PB_SYS_DATA_DIF
PB_SYS_CTL_DIF
CLK18_DIF
PB_DV_MPU
DV_PROC
PLL_VCO
DV_DIF_DATA
DV_DIF_RDY_L
PB_SYS_DATA
PB_SYS_CTL
DIF_CLK18
R3140 22/J3
R3135 (74VHC541MTCX)
1000/J3
VCC_V
R3129
D1H84734A008
DV_MPU IN
IC3127
C0JBAZ001777
CUEREV_H
LIN_H
STILL_H
TAPE_REV_H
DIF_DV_DATA
DIF_DV_CLK
DIF_DV_SEL_REC_L
DV_CUEREV_H
DV_LIN_H
DV_STILL_H
DV_TAPE_REV_H
DIF_SIO_IN
DIF_SIO_CLK_IN
DIF_SIO_REC_L
R3132
1000/J3
(74VHC541MTCX)
C3121 0.1/UFV
C3122 0.1/UFV
C3123 0.1/UFV
C3124 0.1/UFV
C3125 0.1/UFV
C3126 0.1/UFV
C3127 0.1/UFV
IC3121 C0JBAZ001777
IC3122 C0JBAZ001777
IC3123 C0JBAZ001777
IC3124 C0JBAZ001777
IC3125 C0JBAZ001777
IC3126 C0JBAZ001777
IC3127 C0JBAZ001777
Ref No. 3121-3170
COMPONENT NAME
F4:D PROC (IOBUF_V)
05/27
CIRCUIT BOARD NO.
VEP83554B
DRAWING NO.
KR30088 (5/27)
SCM034



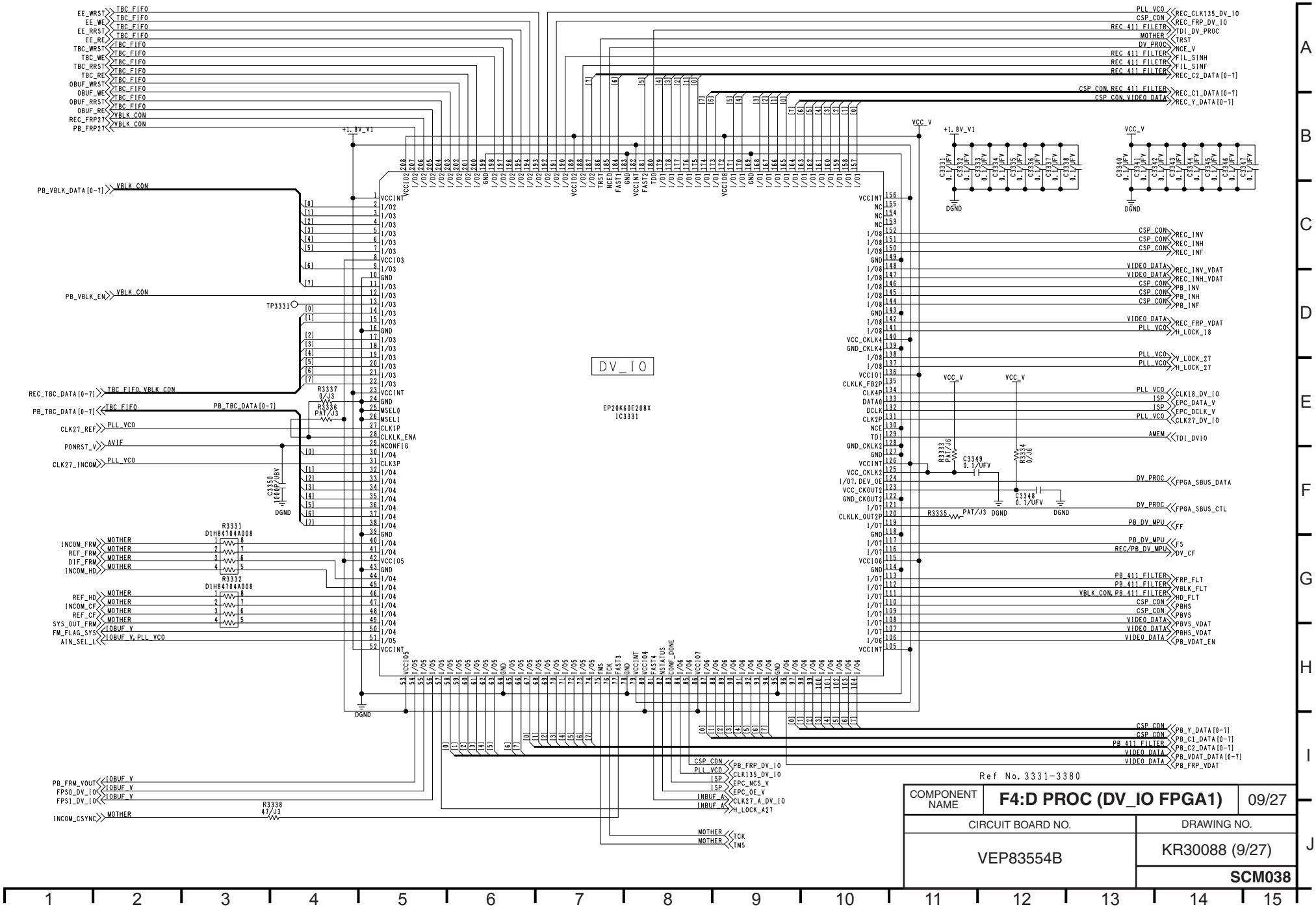
Ref. No. 3171-3220

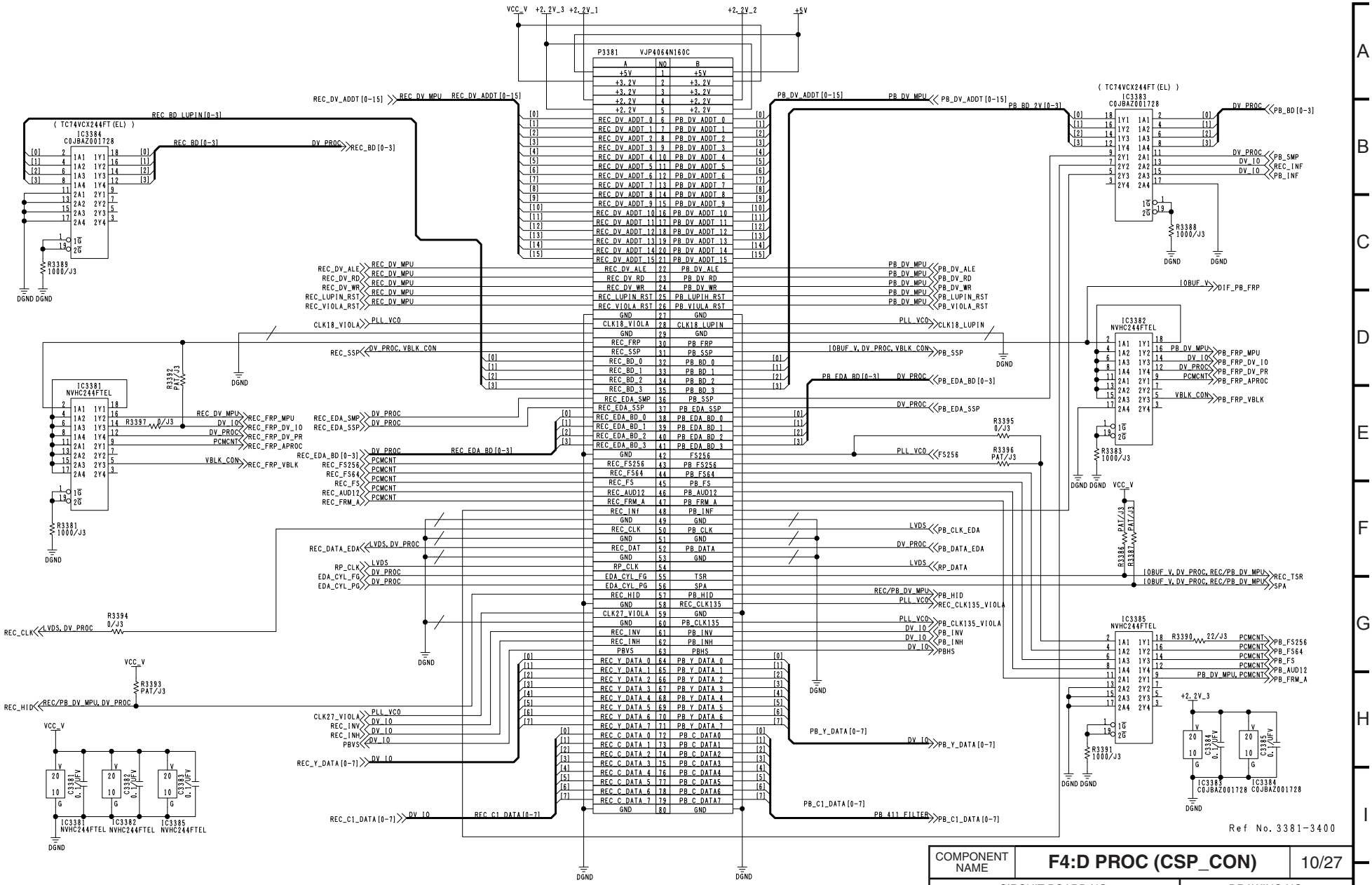
COMPONENT NAME	F4:D PROC (IOBUF_A)	06/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088 (6/27)
		SCM035


IC3222 BH7086KV
IC3223 C0JBAB000422 (SN74AHC1GU04DCKR)
IC3227 C0JBAZ000280 (TC7WH241FUTL)
IC3228 C0JBAZ000545
IC3229 C0JBAZ000545
IC3230 C0JBAZ000545
IC3231 C0JBAR000331
IC3232 C0JBAZ000545
IC3233 C0JBAZ000545
IC3234 C0JBAZ000545
IC3221 NJM082BV-TE1
IC3224 NJM082BV-TE1
(74LCX244MTCX)
(74LCX257MTCX)
V_LOCK_27
H_LOCK_27
H_LOCK_18
27SEL1
27SEL0
AIN_SEL_L
INCOM_CLK27
SINCOM_CLK27
REF_CLK27
PB_CLK135_VIOLA
REC_CLK135_VIOLA
CLK18_LUPIN
AUD_VCO_L
REC_FS256
CLK18_VIOLA
CLK18_DIF
CLK18_DV_IO
CLK18_EE_FIFO
CLK18_VDAT
CLK18_VBLK
CLK18_APROC
CLK18_DV_PROC
CLK27_INCOM
CLK27_REF_A
CLK27_REF
CLK27_REF_MPU
CLK135_DV_IO
CLK135_VDAT
CLK135_VBLK
CLK135_REC_FLT
CLK135_PB_FLT
CLK27_REC_DV_MPU
CLK27_PB_DV_MPU
CLK27_VIOLA
CLK27_DV_IO
CLK27_APROC
CLK27_TBC_RCK
CLK27_OBUF_WCK
CLK27_VBLK
Ref No. 3221-3300
COMPONENT NAME
F4:D PROC (PLL_VCO)
07/27
CIRCUIT BOARD NO.
VEP83554B
DRAWING NO.
KR30088 (7/27)
SCM036

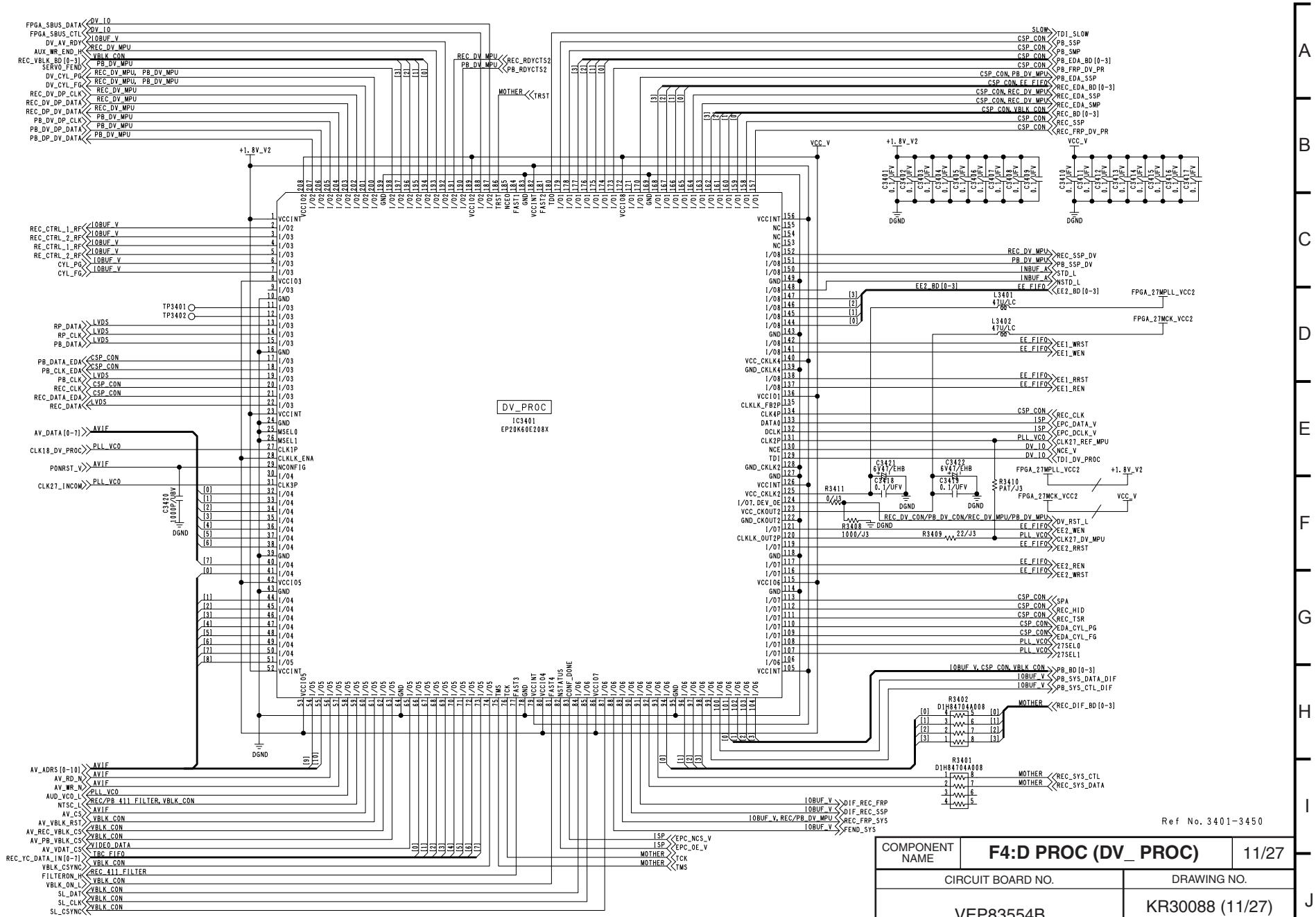


COMPONENT NAME	F4:D PROC (TBC_FIFO)	08/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088 (8/27)
		SCM037

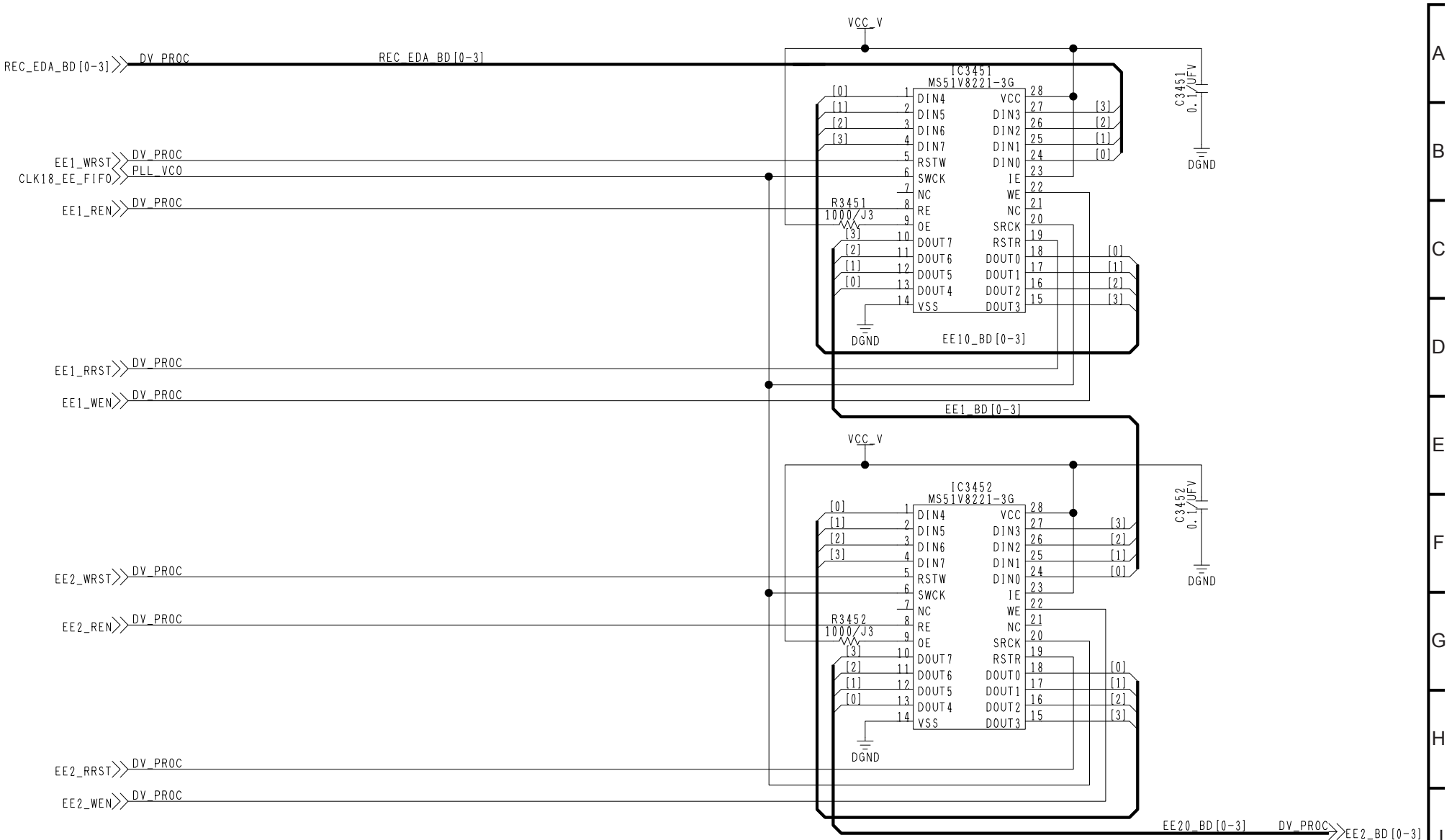

DV_IO
EP20K60E208X
IC3331
Ref No. 3331-3380
COMPONENT NAME
F4:D PROC (DV_IO FPGA1)
09/27
CIRCUIT BOARD NO.
VEP83554B
DRAWING NO.
KR30088 (9/27)
SCM038



COMPONENT NAME	F4:D PROC (CSP_CON)	10/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088 (10/27)
		SCM039

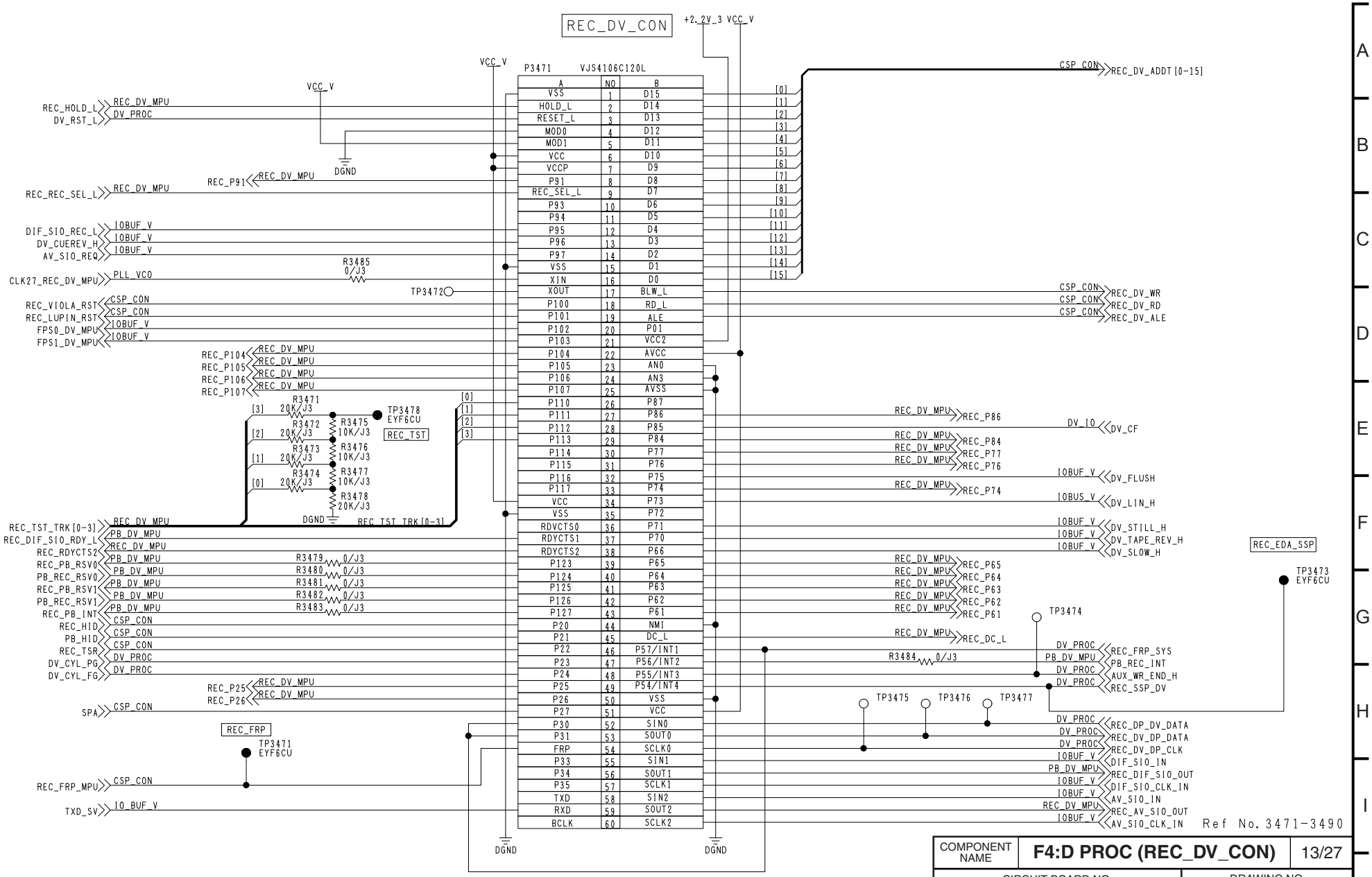


COMPONENT NAME	F4:D PROC (DV_ PROC)	11/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088 (11/27)
		SCM040

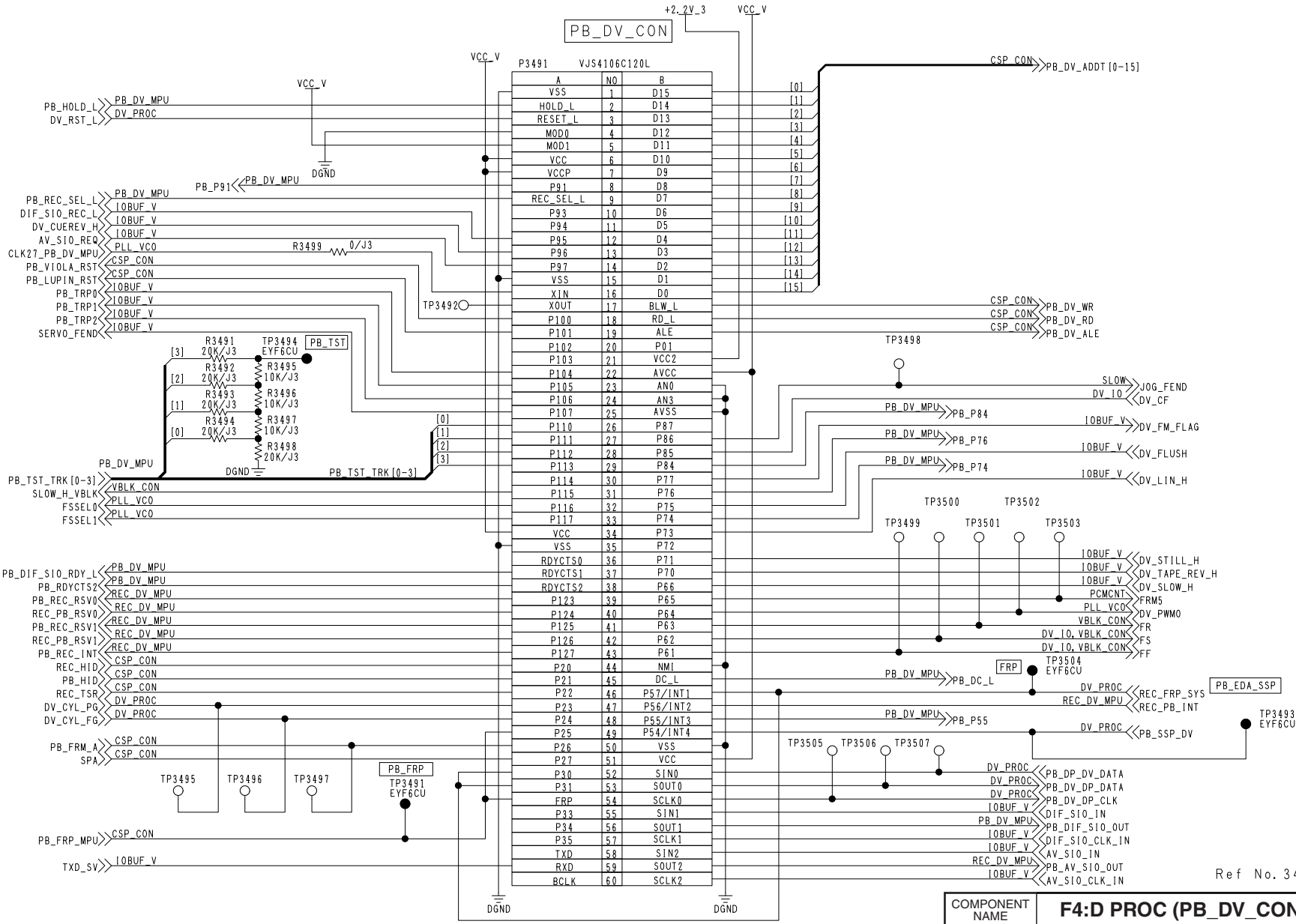


Ref No. 3451-3470

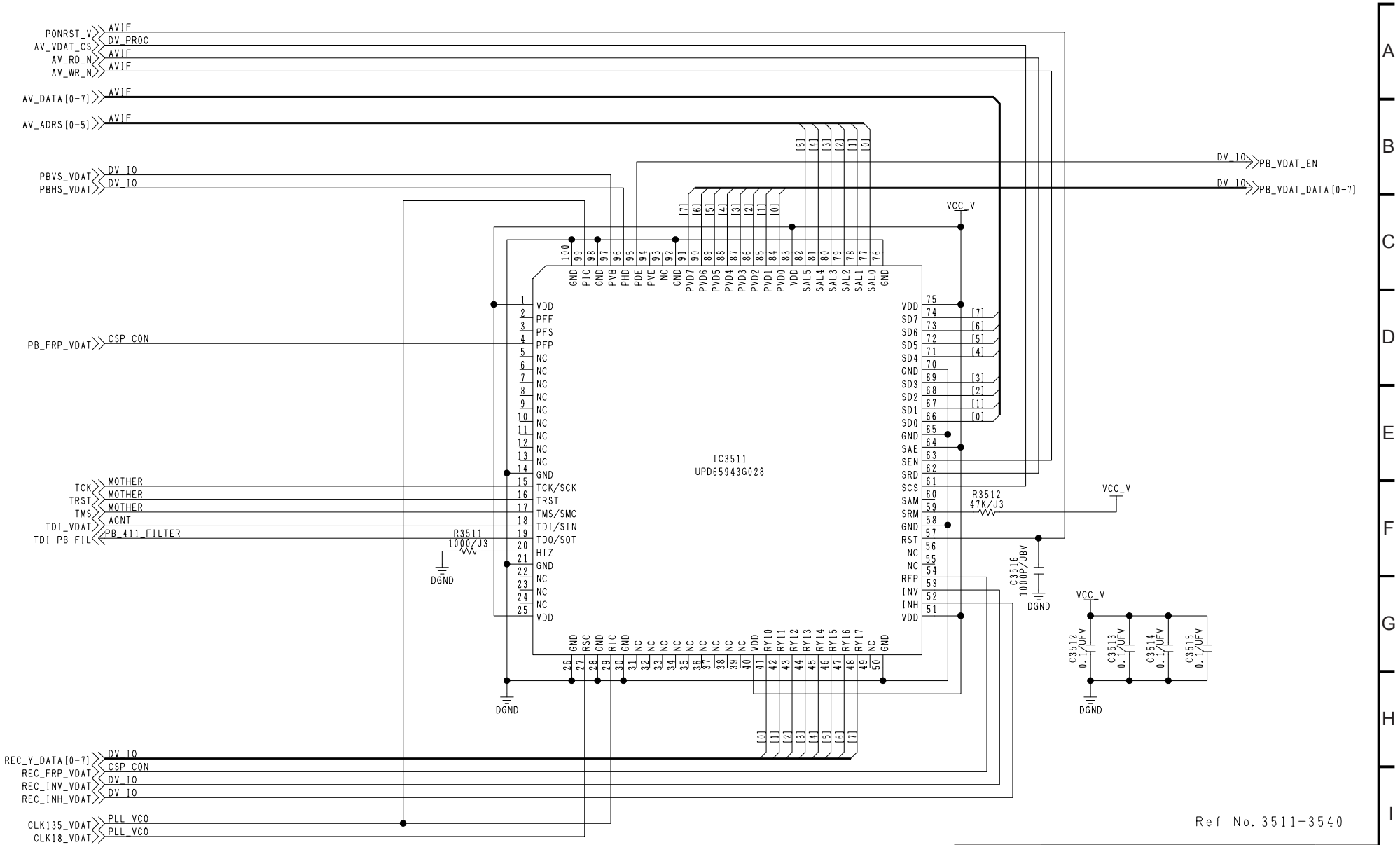
COMPONENT NAME	F4:D PROC (EE_FIFO)	12/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088 (12/27)
		SCM041



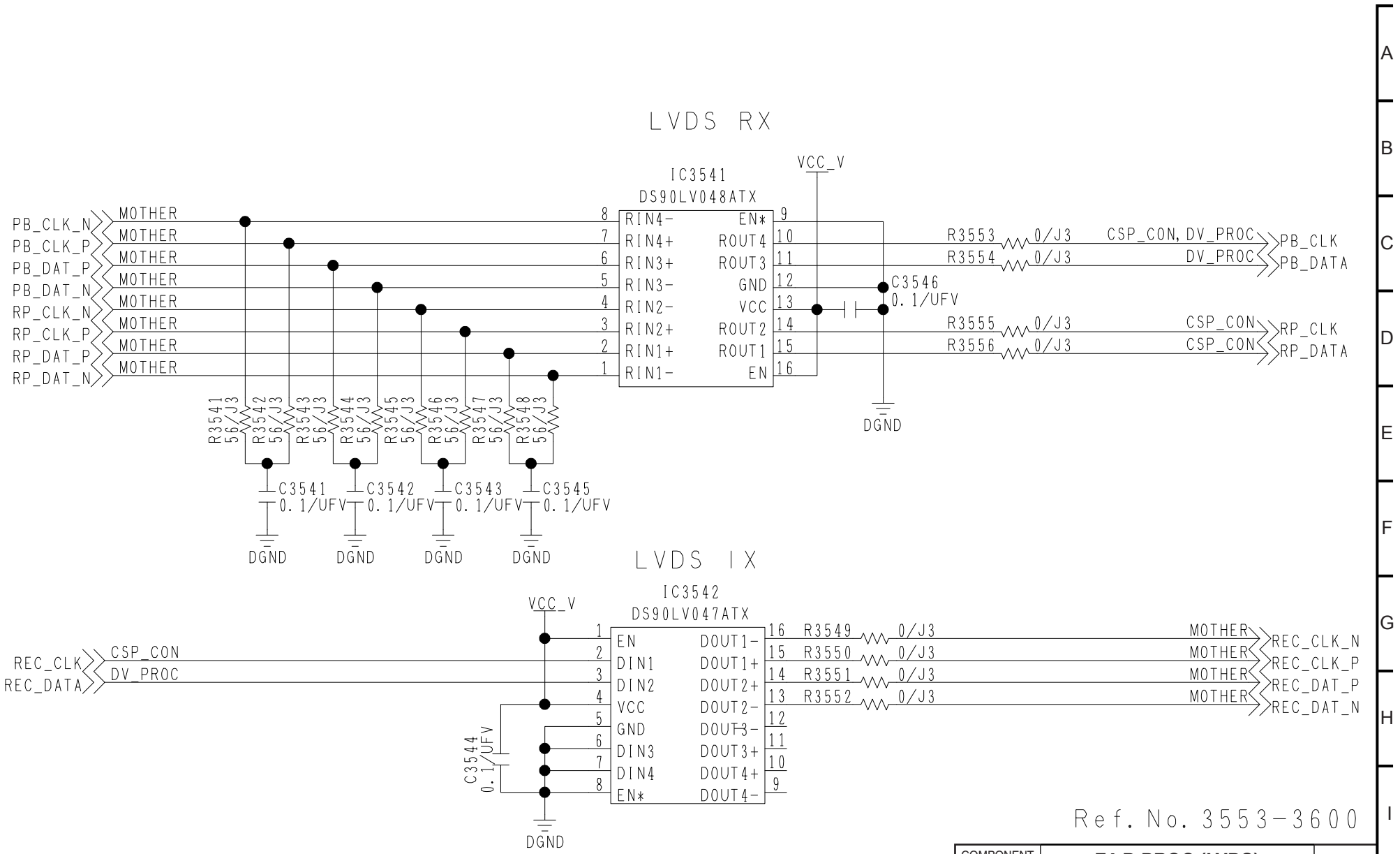
COMPONENT NAME	F4:D PROC (REC_DV_CON)	13/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088 (13/27)
		SCM042



COMPONENT NAME	F4:D PROC (PB_DV_CON)	14/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088 (14/27)
		SCM043

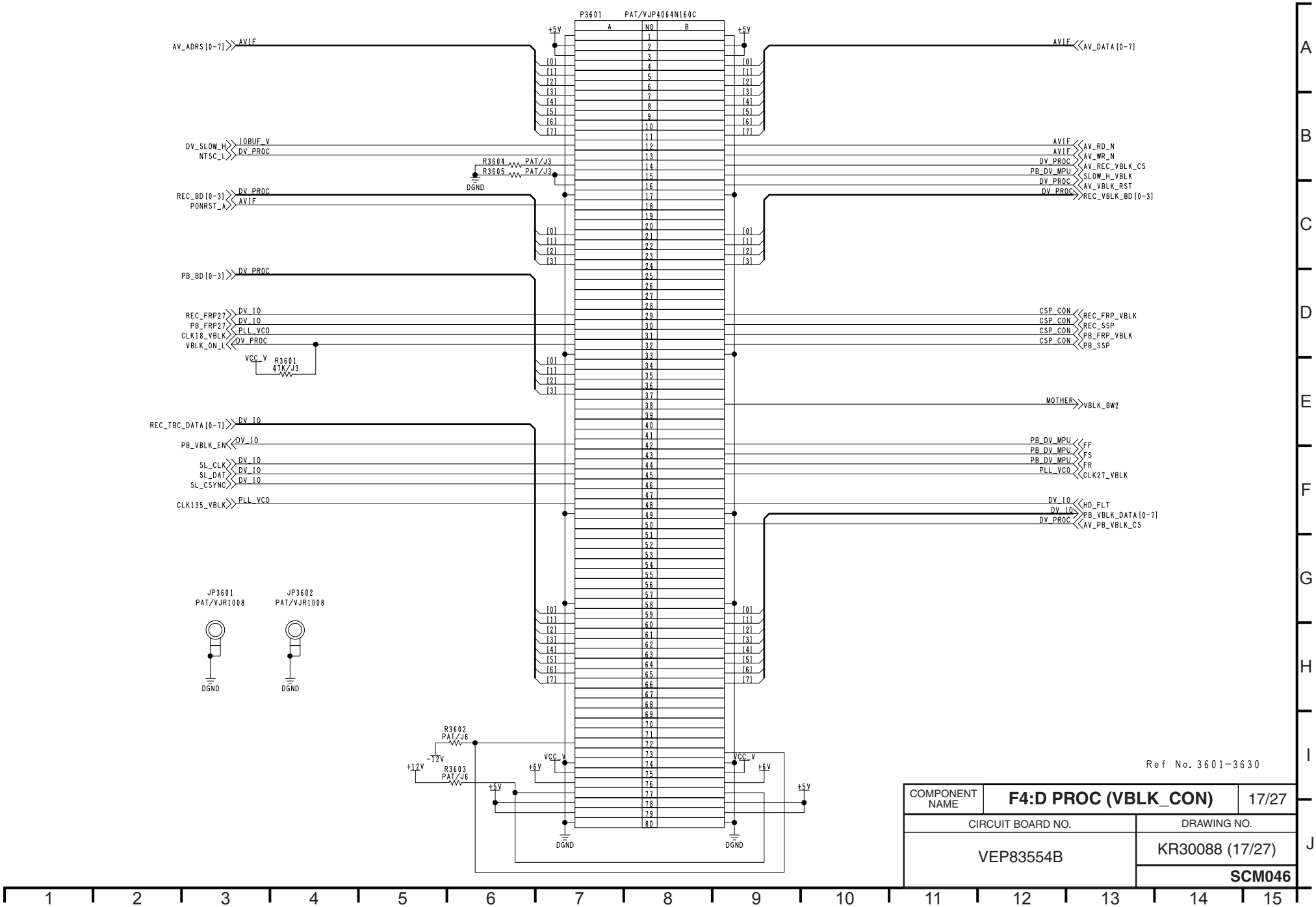


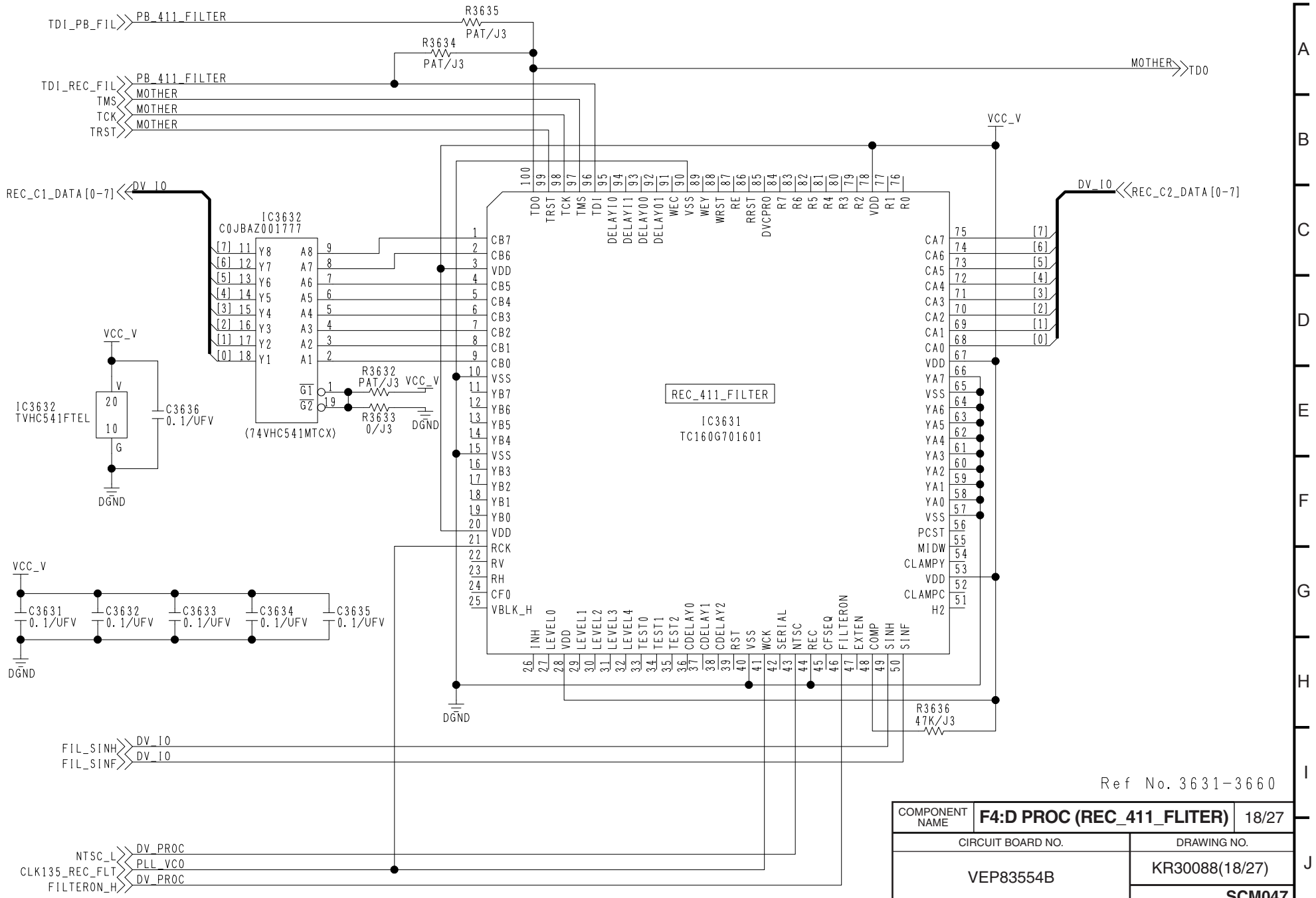
COMPONENT NAME	F4:D PROC (VIDEO DATA VITC/CC)	15/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088 (15/27)
		SCM044



Ref. No. 3553-3600

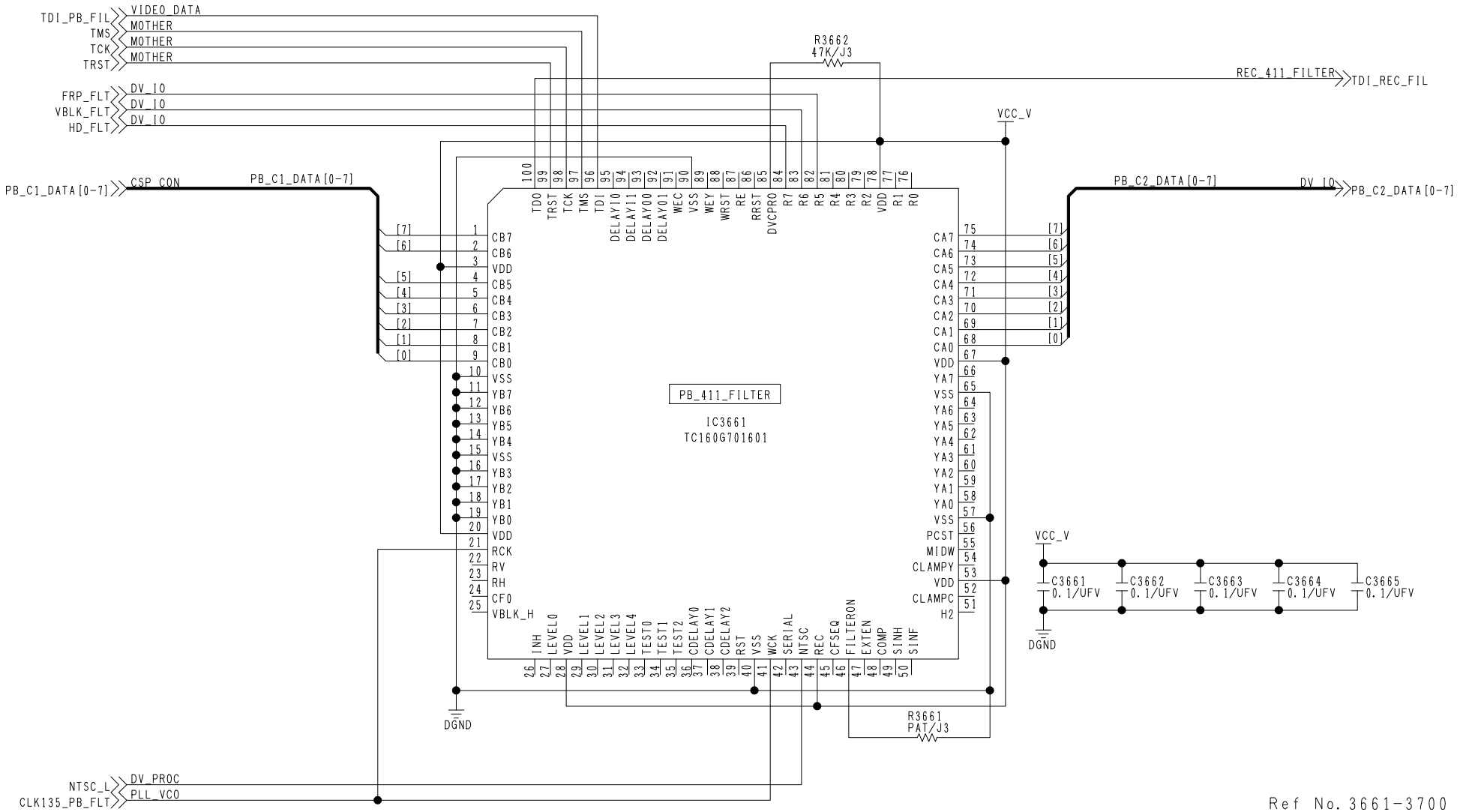
COMPONENT NAME	F4:D PROC (LVDS)	16/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088 (16/27)
		SCM045


P3601 PAT/VJP4064N160C
A NO B
AV_ADRS[0-7]
AVIF
AV_DATA[0-7]
DV_SLOW_H
NTSC_L
IOBUF_V
DV_PROC
R3604 PAT/J3
R3605 PAT/J3
DGND
REC_BD[0-3]
PONRST_A
AV_RD_N
AV_WR_N
AV_REC_VBLK_CS
SLOW_H_VBLK
AV_VBLK_RST
REC_VBLK_BD[0-3]
PB_BD[0-3]
REC_FRP27
PB_FRP27
CLK18_VBLK
VBLK_ON_L
PLL_VCO
VCC_V
R3601 47K/J3
CSP_CON
REC_FRP_VBLK
REC_SSP
PB_FRP_VBLK
PB_SSP
REC_TBC_DATA[0-7]
PB_VBLK_EN
SL_CLK
SL_DAT
SL_CSYNC
CLK135_VBLK
MOTHER
VBLK_BW2
PB_DV_MPU
FF
FS
FR
CLK27_VBLK
HD_FLT
PB_VBLK_DATA[0-7]
AV_PB_VBLK_CS
JP3601 PAT/VJR1008
JP3602 PAT/VJR1008
R3602 PAT/J6
R3603 PAT/J6
+5V
+6V
+12V
-12V
Ref No. 3601-3630
COMPONENT NAME
F4:D PROC (VBLK_CON)
17/27
CIRCUIT BOARD NO.
VEP83554B
DRAWING NO.
KR30088 (17/27)
SCM046



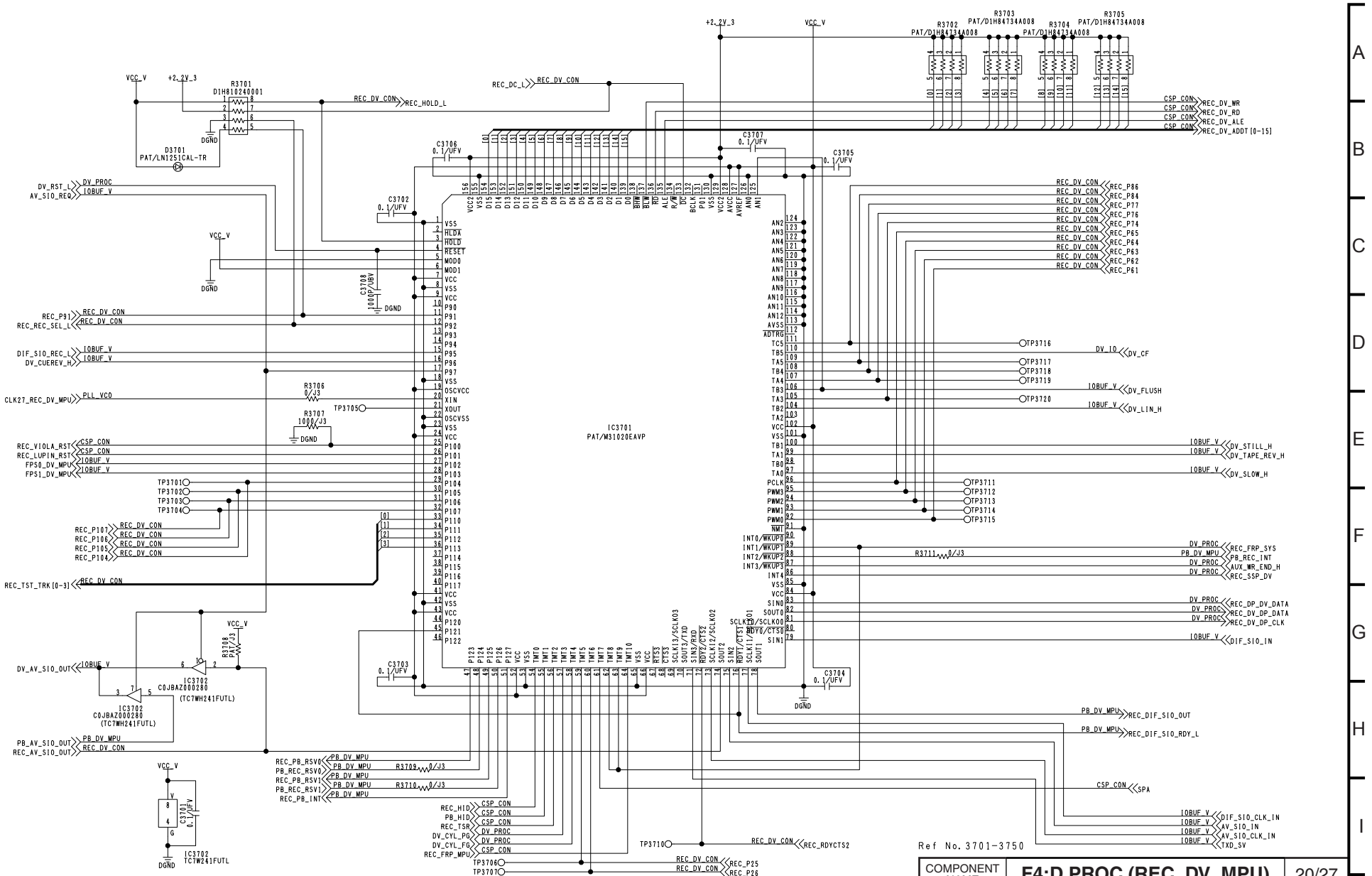
Ref No. 3631-3660

COMPONENT NAME	F4:D PROC (REC_411_FLITER)	18/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088(18/27)
		SCM047

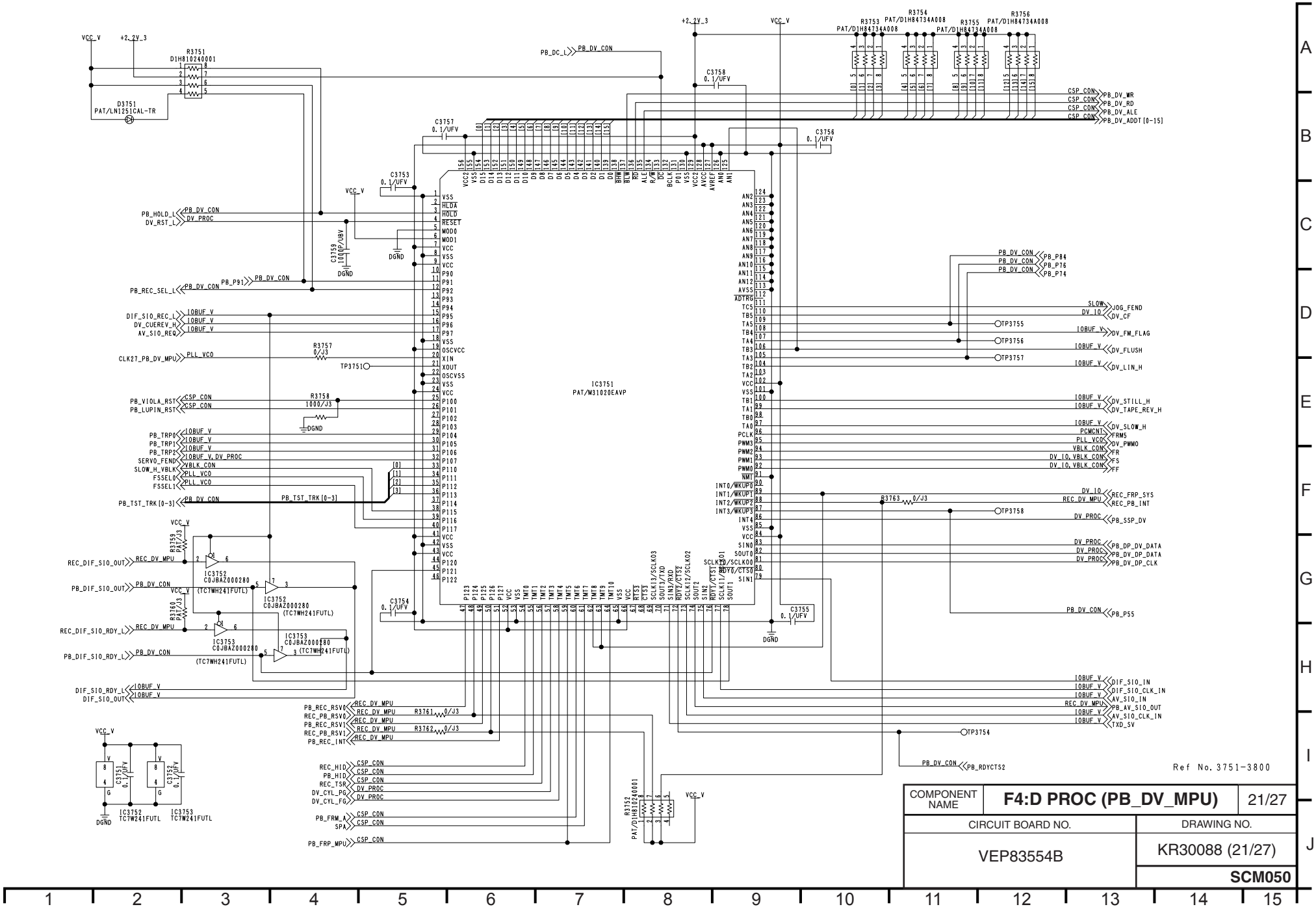


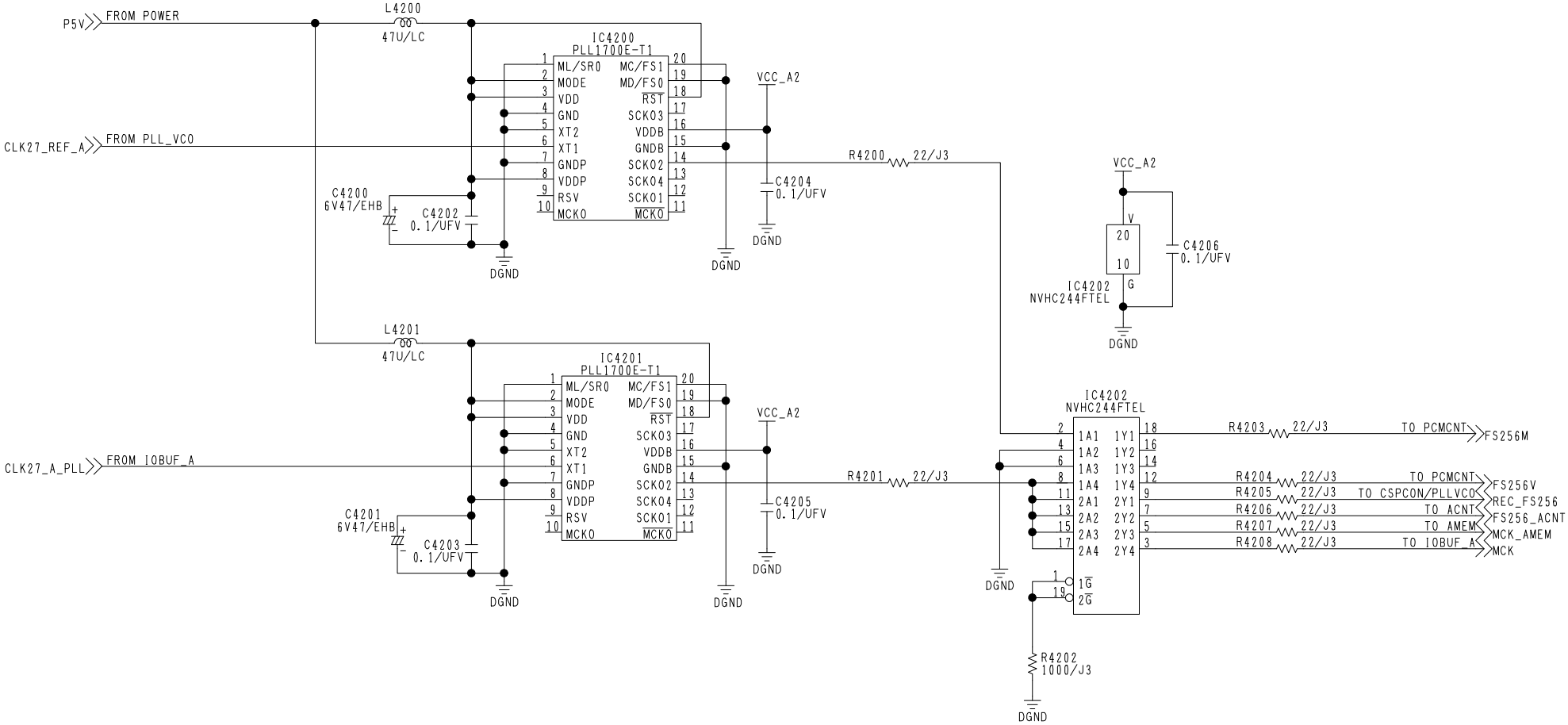
Ref No. 3661-3700

COMPONENT NAME	F4:D PROC (PB_411_FILTER)	19/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088 (19/27)
		SCM048



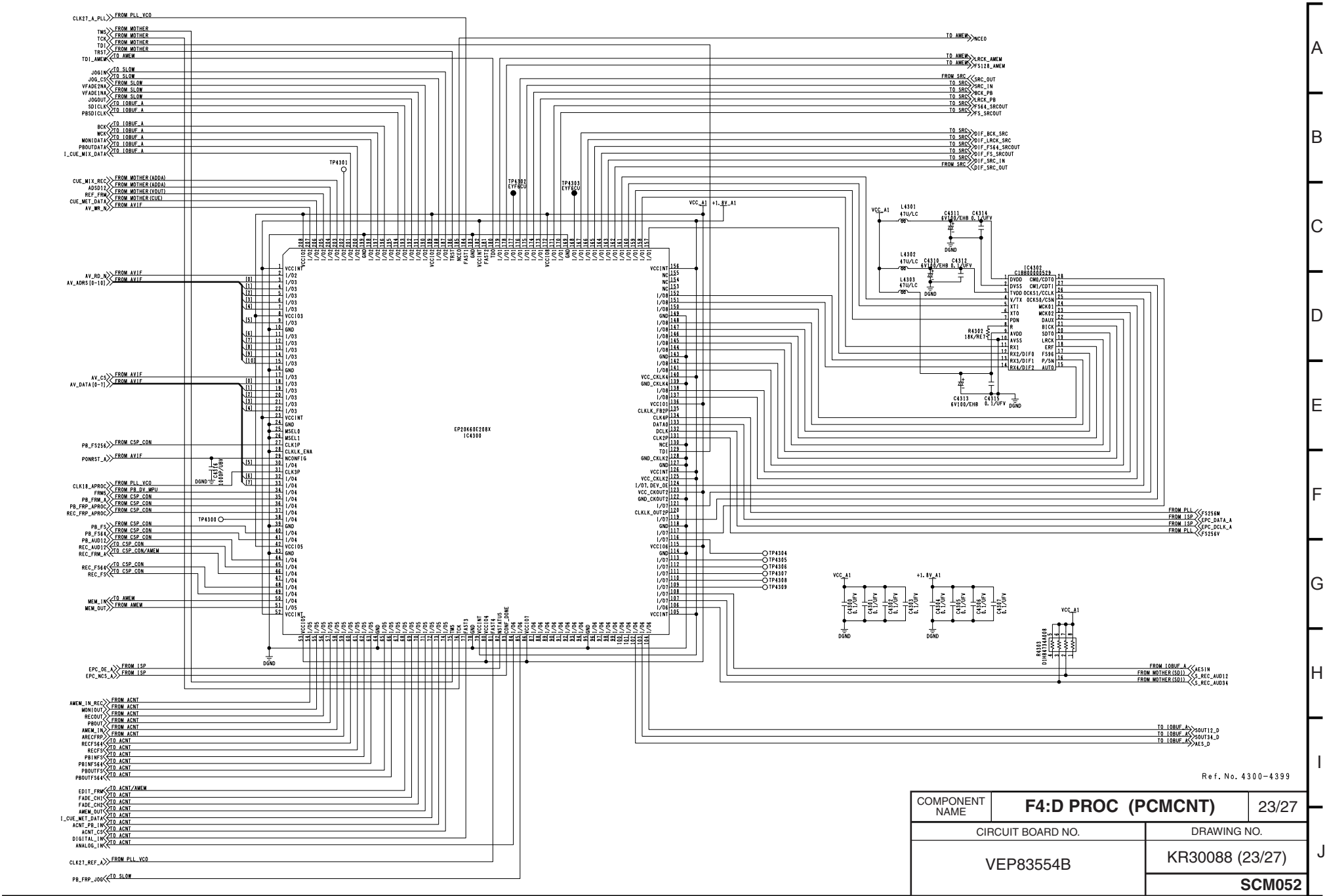
COMPONENT NAME	**F4:D PROC (REC_DV_MPU)**	20/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088 (20/27)
		SCM049


IC3751
PAT/M31020EAVP
R3751
D1H810240001
D3751
PAT/LN1251CAL-TR
R3753
PAT/D1H84734A008
R3754
PAT/D1H84734A008
R3755
PAT/D1H84734A008
R3756
PAT/D1H84734A008
C3751
C3752
C3753
C3754
C3755
C3756
C3757
C3758
R3757
R3758
R3759
R3760
R3761
R3762
R3763
R3752
D1H810240001
IC3752
C0JBAZ000280
(TC7WH241FUTL)
IC3753
C0JBAZ000280
(TC7WH241FUTL)
TP3751
TP3754
TP3755
TP3756
TP3757
TP3758
VCC_V
+2.2V_3
DGND
PB_DV_CON
PB_DC_L
PB_HOLD_L
DV_RST_L
PB_REC_SEL_L
PB_P91
DIF_SIO_REC_L
DV_CUEREV_H
AV_SIO_REQ
CLK27_PB_DV_MPU
PLL_VCO
PB_VIOLA_RST
PB_LUPIN_RST
CSP_CON
PB_TRP0
PB_TRP1
PB_TRP2
SERVO_FEND
SLOW_H_VBLK
FSSEL0
FSSEL1
PB_TST_TRK[0-3]
REC_DIF_SIO_OUT
PB_DIF_SIO_OUT
REC_DIF_SIO_RDY_L
PB_DIF_SIO_RDY_L
DIF_SIO_RDY_L
DIF_SIO_OUT
REC_DV_MPU
PB_REC_RSV0
PB_REC_RSV1
PB_REC_INT
REC_HID
PB_HID
REC_TSR
DV_CYL_PG
DV_CYL_FG
PB_FRM_A
PB_FRP_MPU
SPA
PB_DV_WR
PB_DV_RD
PB_DV_ALE
PB_DV_ADDT[0-15]
PB_P84
PB_P76
PB_P74
PB_P55
SLOW
DV_IO
JOG_FEND
DV_CF
DV_FM_FLAG
DV_FLUSH
DV_LIN_H
DV_STILL_H
DV_TAPE_REV_H
DV_SLOW_H
PCMCNT
FRM5
DV_PWMO
VBLK_CON
FR
FS
FF
REC_FRP_SYS
REC_PB_INT
DV_PROC
PB_SSP_DV
PB_DP_DV_DATA
PB_DV_DP_DATA
PB_DV_DP_CLK
DIF_SIO_IN
DIF_SIO_CLK_IN
AV_SIO_IN
PB_AV_SIO_OUT
AV_SIO_CLK_IN
TXD_SV
PB_RDYCTS2
Ref No. 3751-3800
COMPONENT NAME
F4:D PROC (PB_DV_MPU)
21/27
CIRCUIT BOARD NO.
VEP83554B
DRAWING NO.
KR30088 (21/27)
SCM050

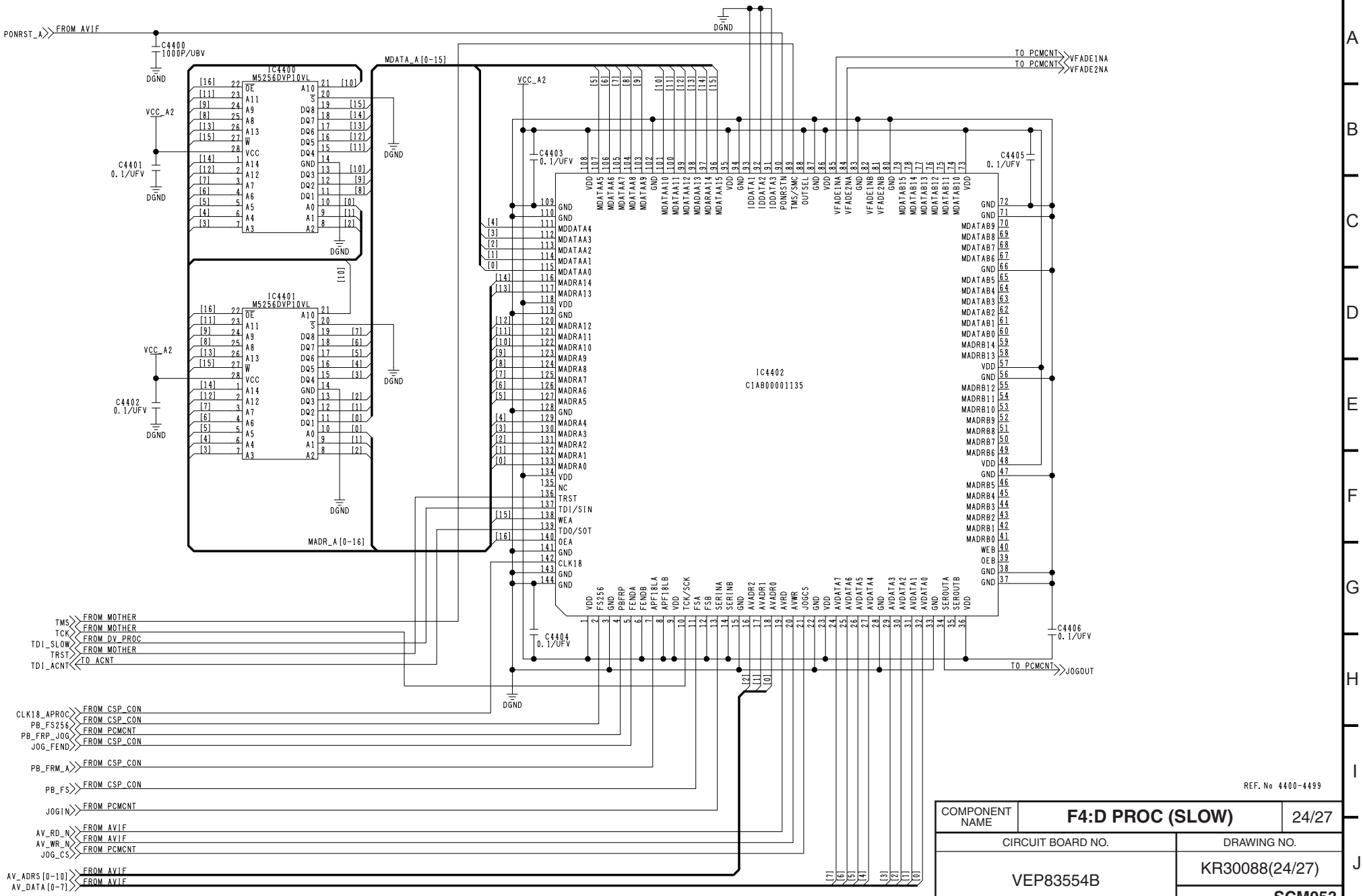


Ref. No. 4200–4299

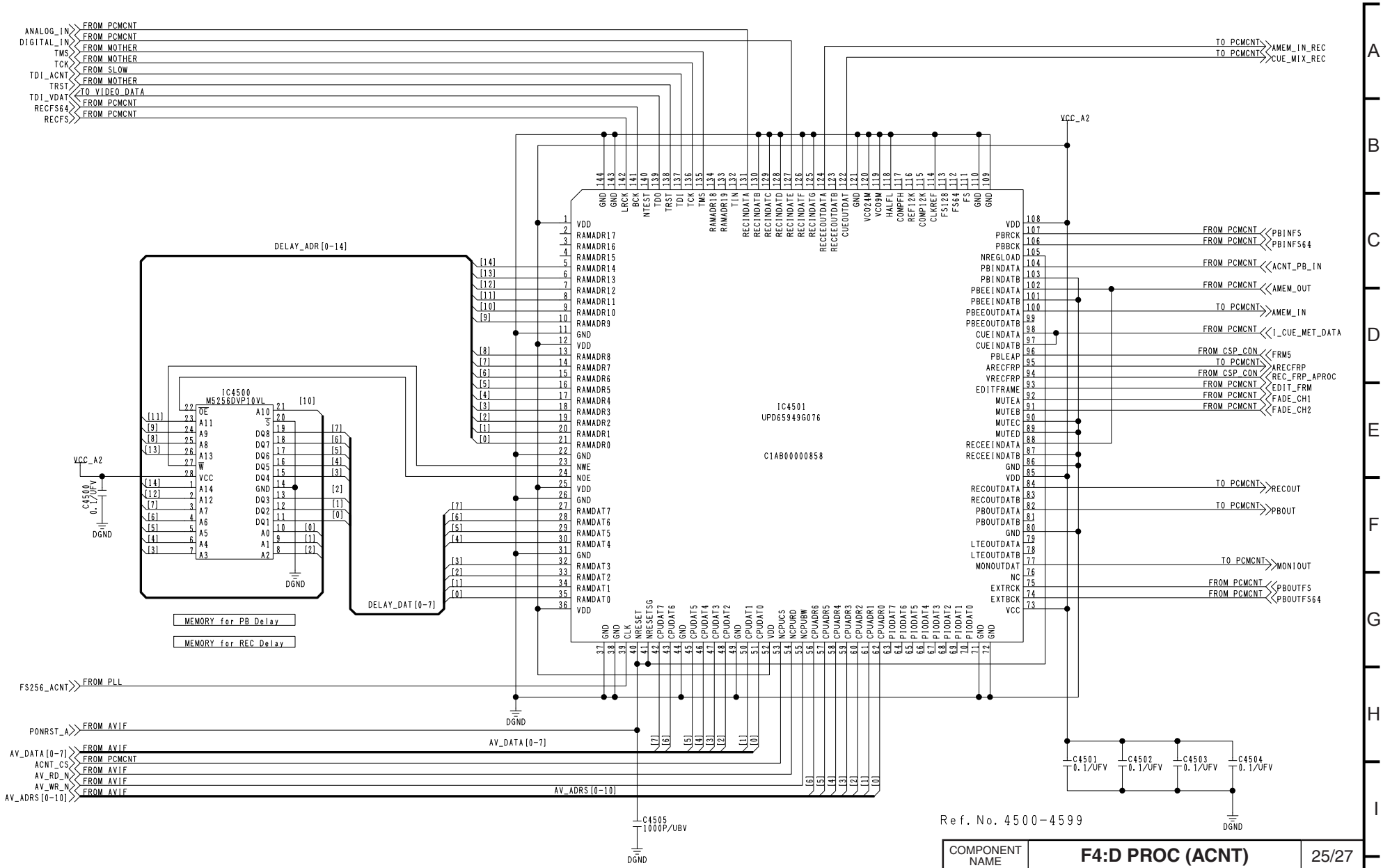
COMPONENT NAME	F4:D PROC (PLL)	22/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088 (22/27)
		SCM051



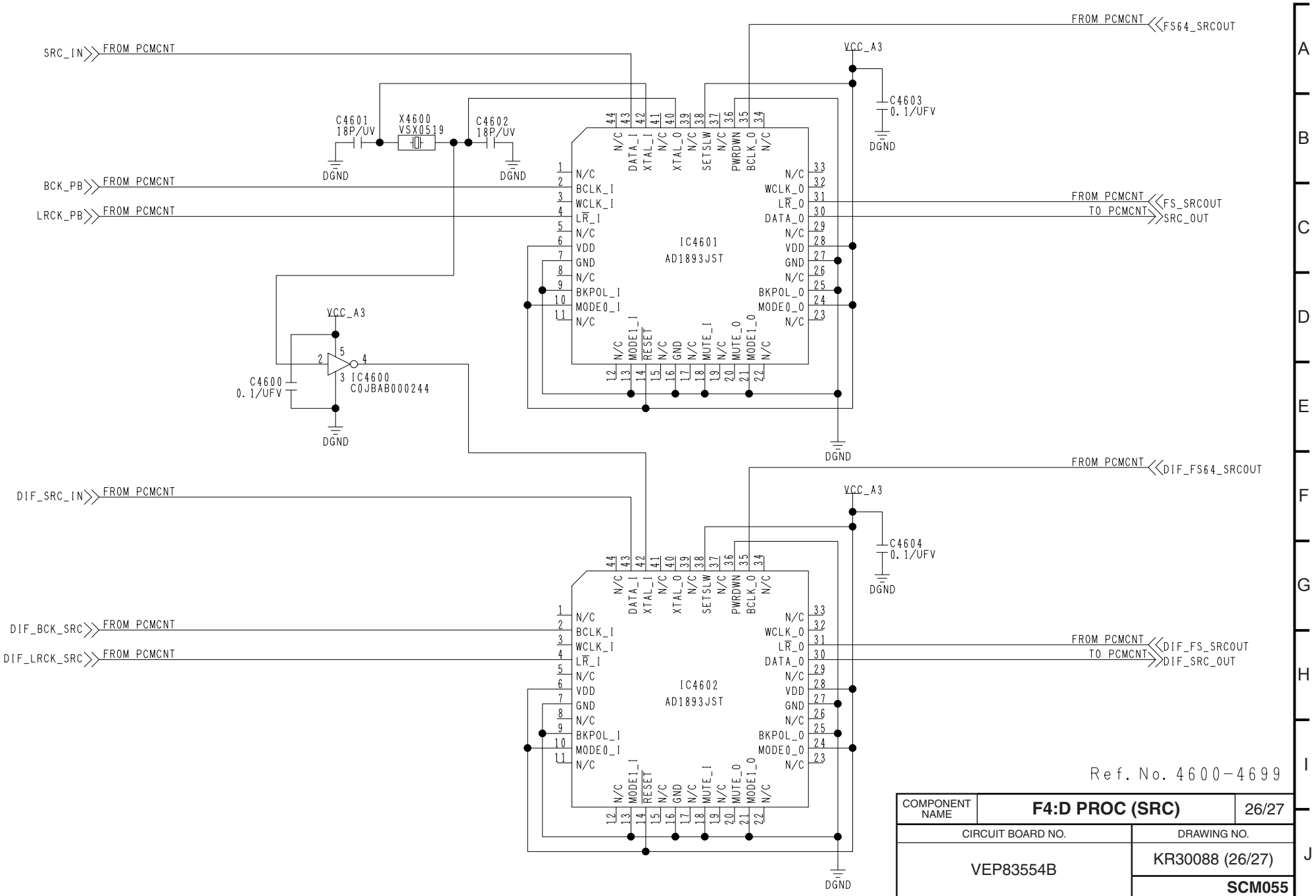
COMPONENT NAME	**F4:D PROC (PCMCNT)**	23/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554B	KR30088 (23/27)	
	SCM052	

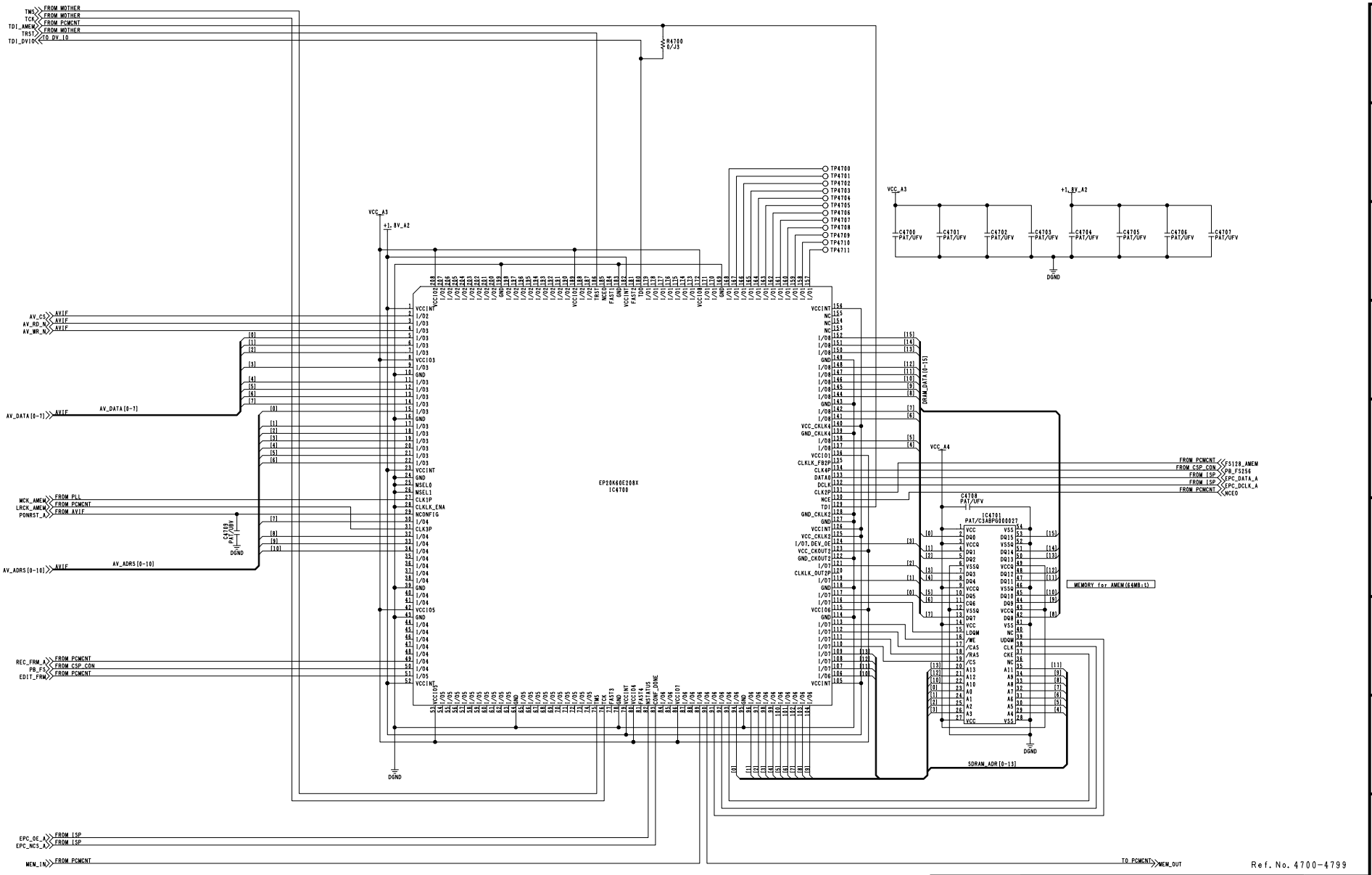


COMPONENT NAME	F4:D PROC (SLOW)	24/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088(24/27)
		SCM053



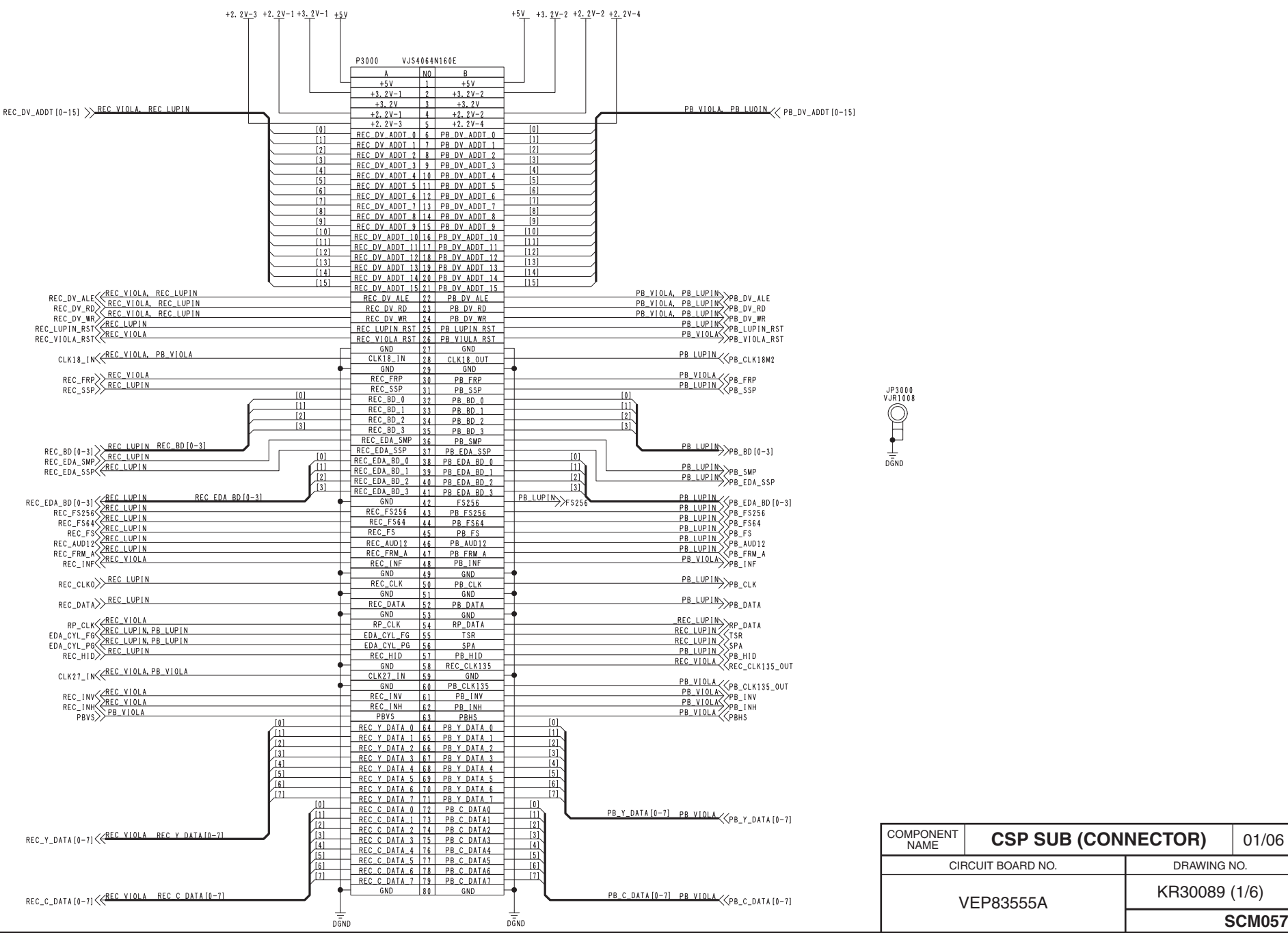
COMPONENT NAME	F4:D PROC (ACNT)	25/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554B	KR30088 (25/27)	
	SCM054	


SRC_IN
FROM PCMCNT
BCK_PB
LRCK_PB
C4601
18P/UV
X4600
VSX0519
C4602
18P/UV
DGND
VCC_A3
C4603
0.1/UFV
IC4601
AD1893JST
FROM PCMCNT
FS64_SRCOUT
FS_SRCOUT
SRC_OUT
TO PCMCNT
C4600
0.1/UFV
IC4600
C0JBAB000244
DIF_SRC_IN
DIF_BCK_SRC
DIF_LRCK_SRC
C4604
0.1/UFV
IC4602
AD1893JST
DIF_FS64_SRCOUT
DIF_FS_SRCOUT
DIF_SRC_OUT
Ref. No. 4600-4699
COMPONENT NAME
F4:D PROC (SRC)
26/27
CIRCUIT BOARD NO.
VEP83554B
DRAWING NO.
KR30088 (26/27)
SCM055

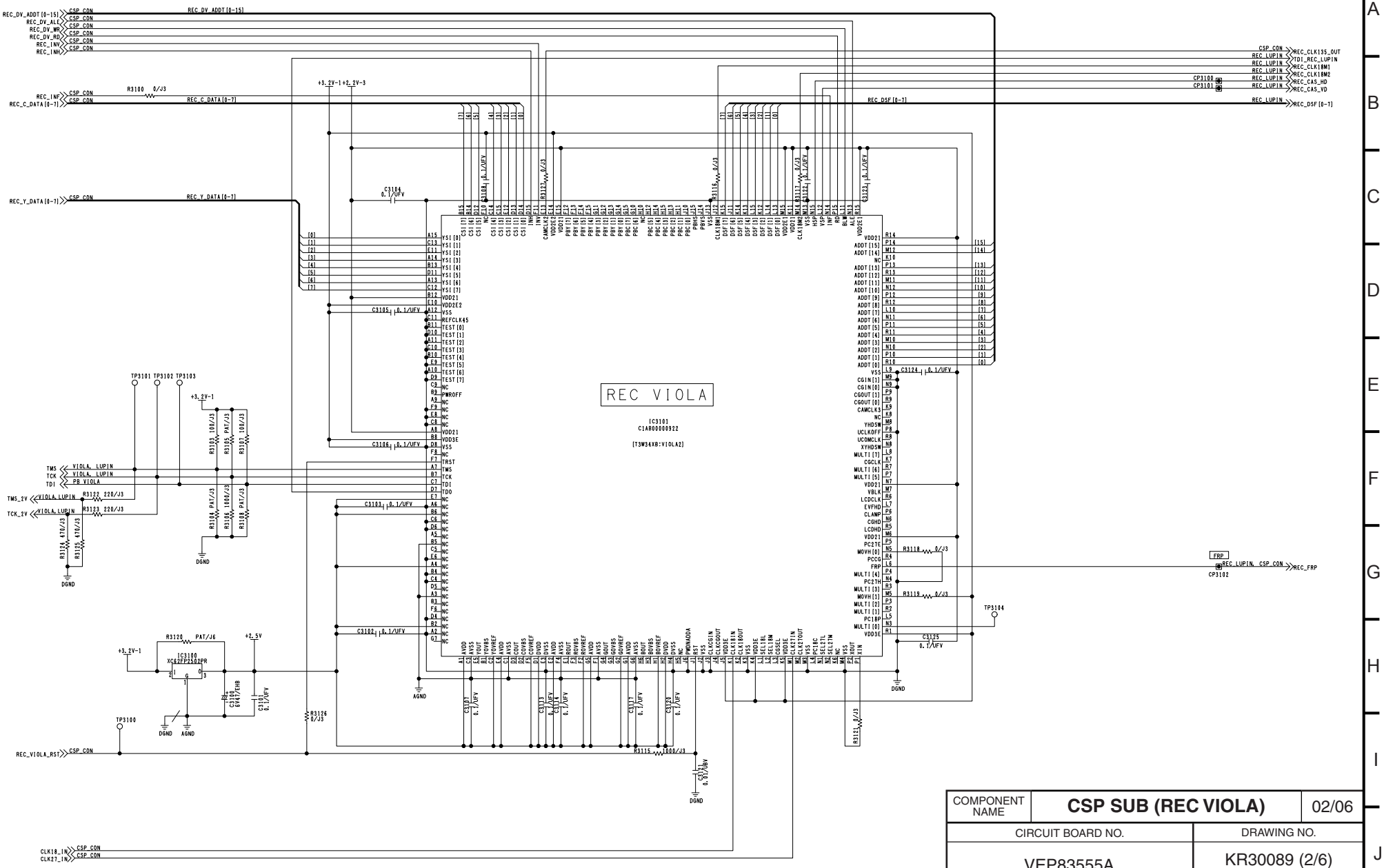


Ref. No. 4700-4799

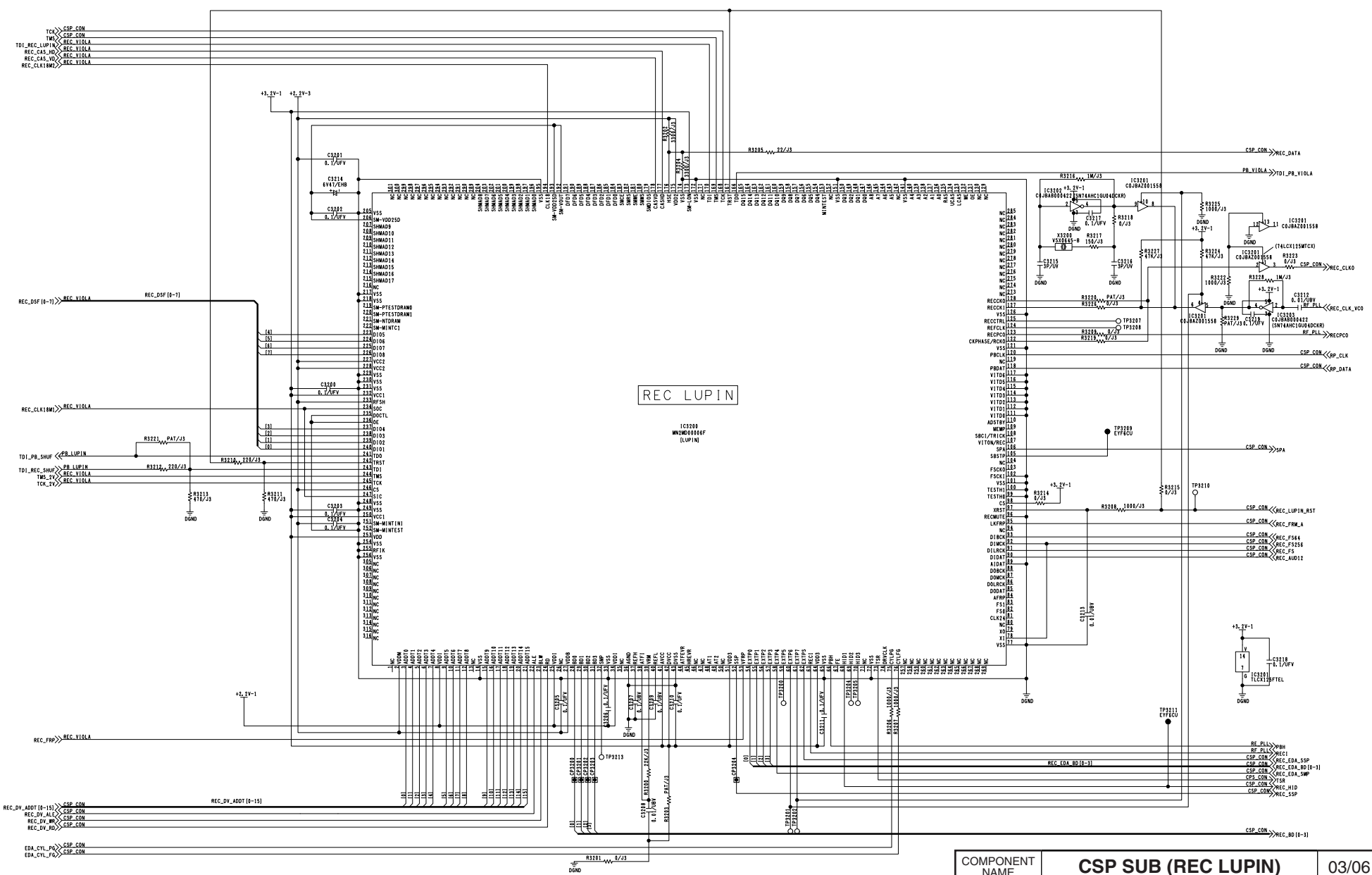
COMPONENT NAME	F4:D PROC (AMEM)	27/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088 (27/27)
		SCM056



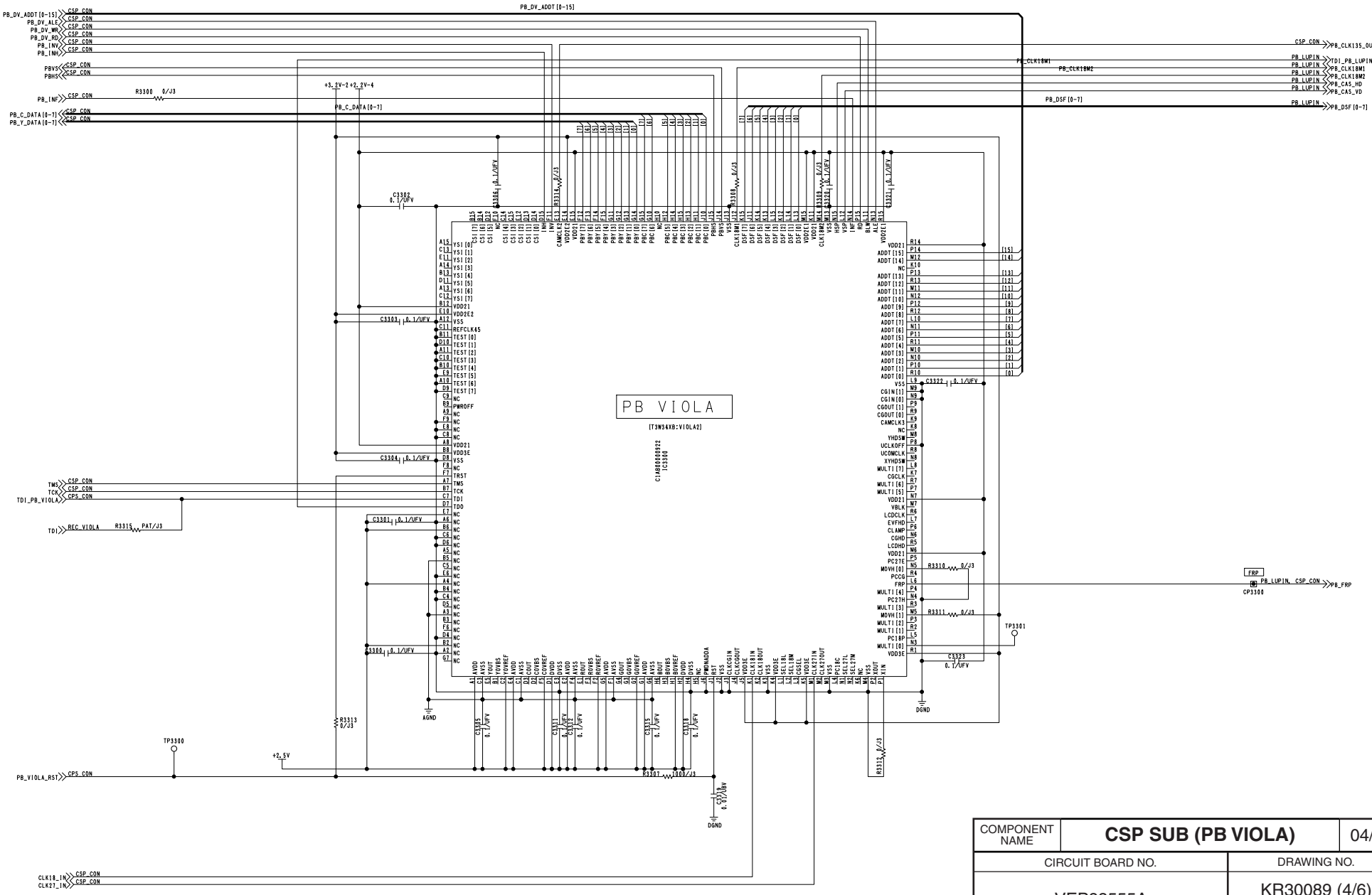
COMPONENT NAME	**CSP SUB (CONNECTOR)**	01/06
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83555A	KR30089 (1/6)	
	SCM057	



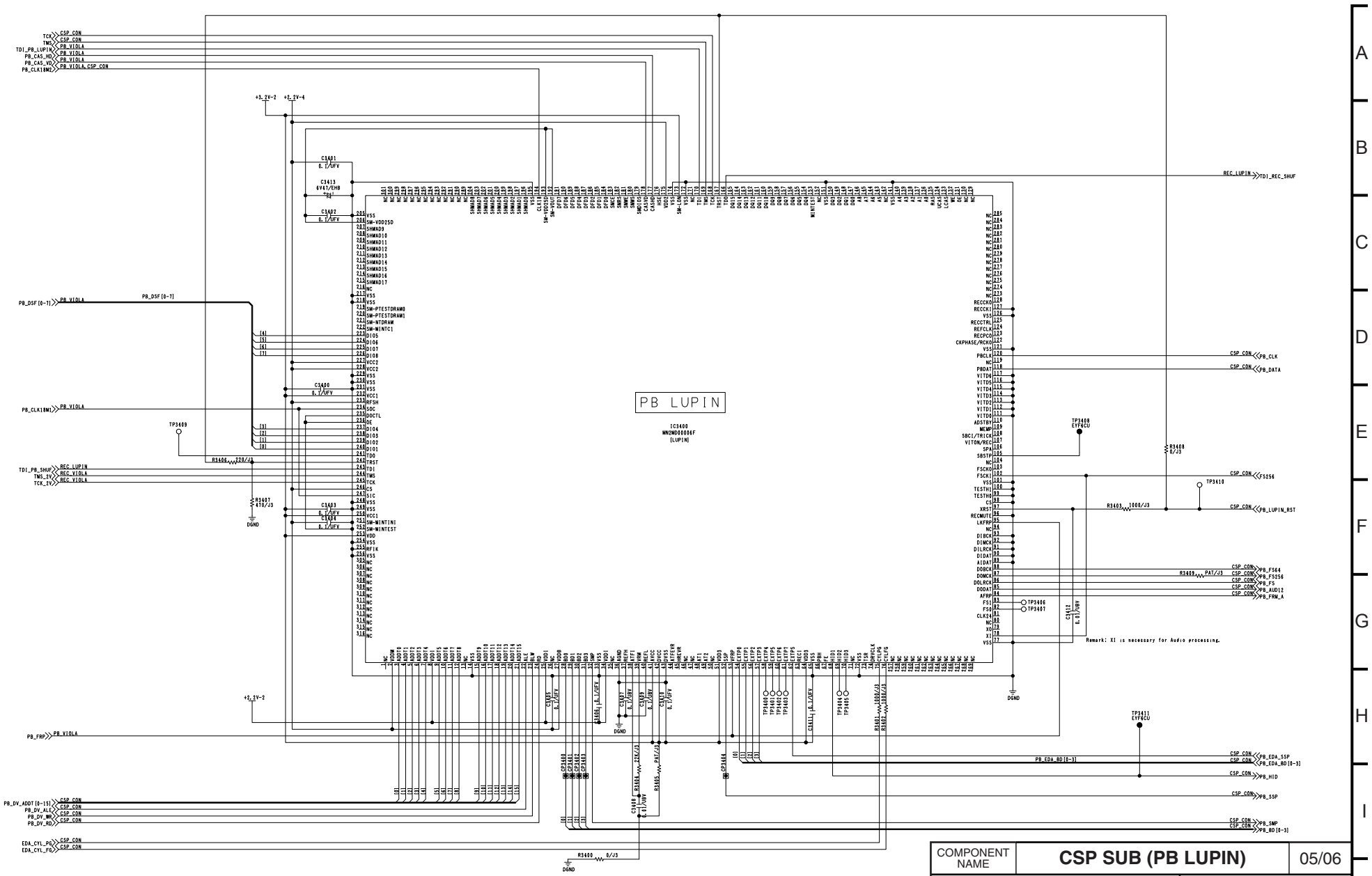
COMPONENT NAME	CSP SUB (REC VIOLA)	02/06
CIRCUIT BOARD NO.		DRAWING NO.
VEP83555A		KR30089 (2/6)
		SCM058

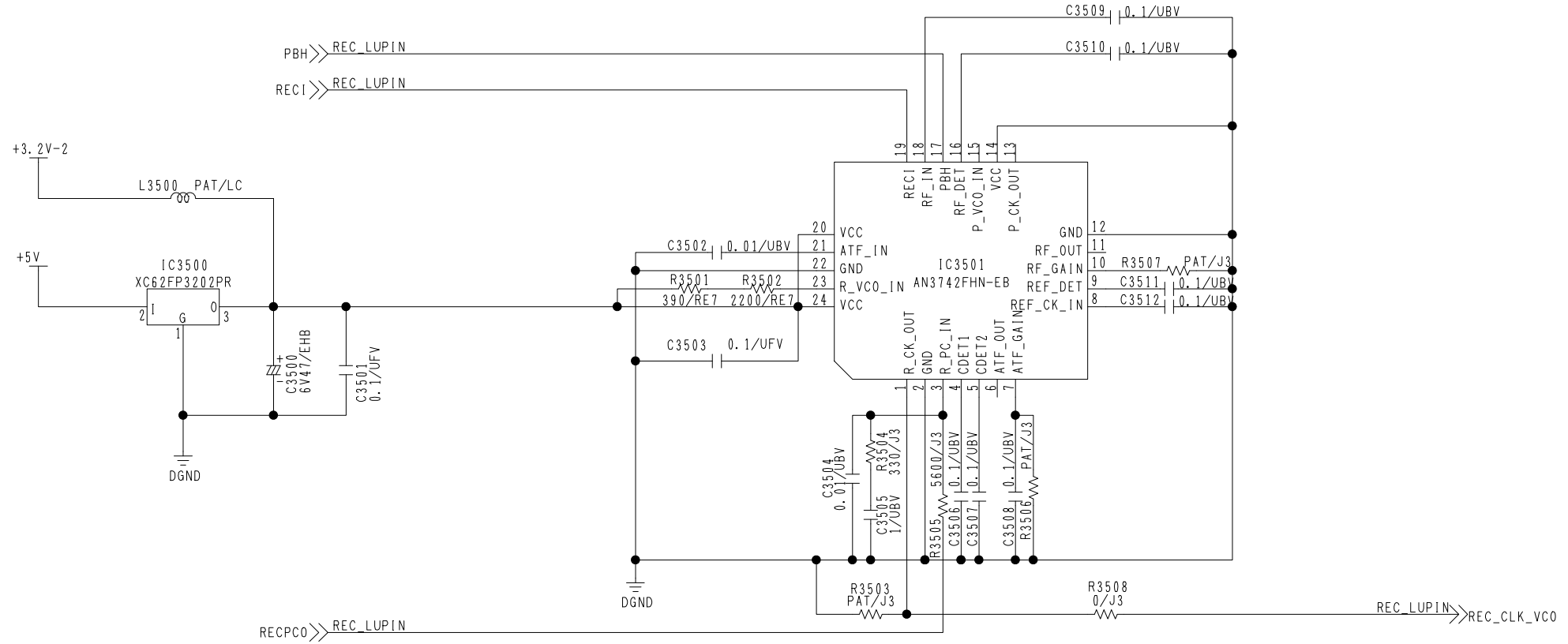


COMPONENT NAME	**CSP SUB (REC LUPIN)**	03/06
CIRCUIT BOARD NO.		DRAWING NO.
VEP83555A		KR30089 (3/6)
		SCM059



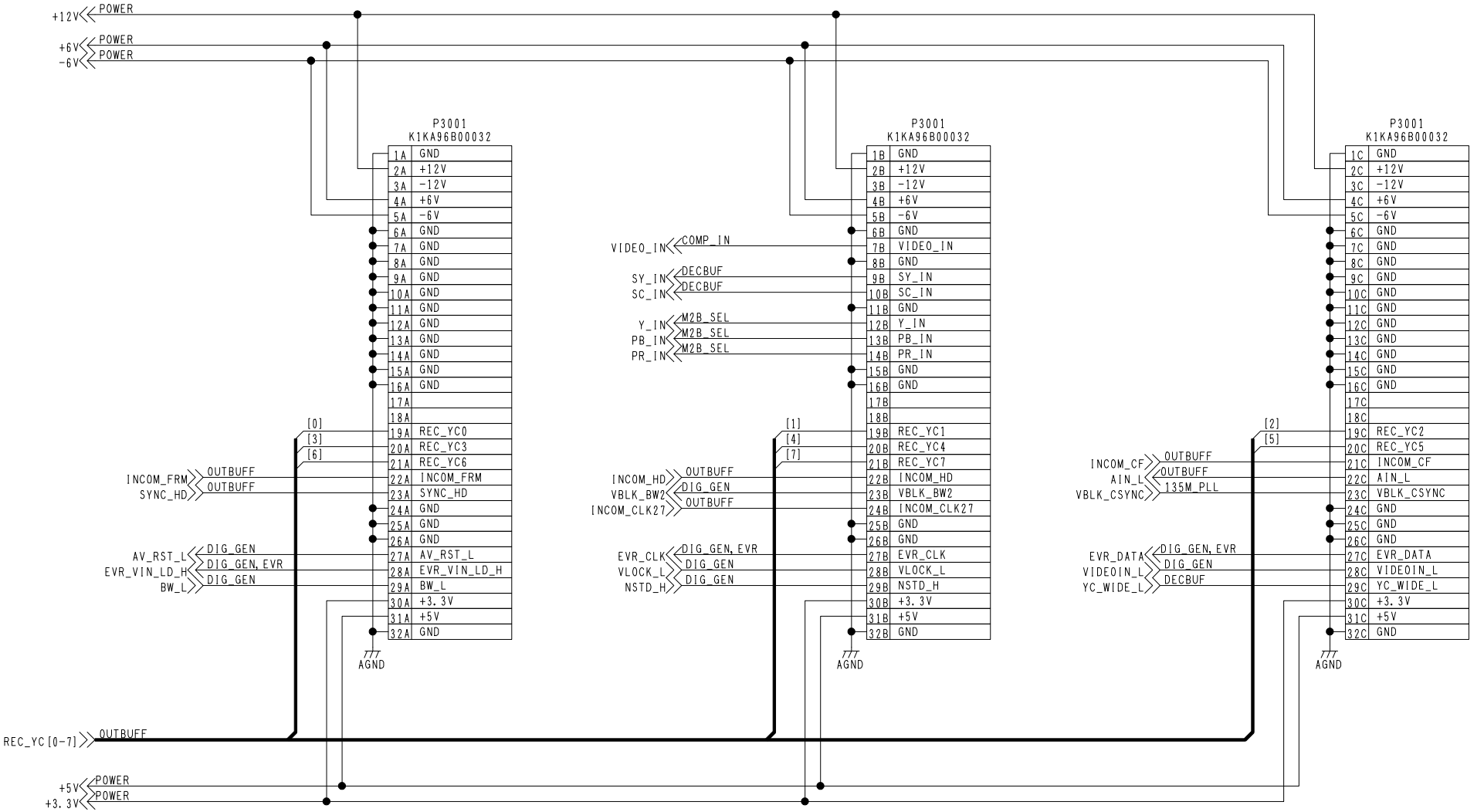
COMPONENT NAME	**CSP SUB (PB VIOLA)**	04/06
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83555A	KR30089 (4/6)	
	SCM060	


PB LUPIN
IC3400
MN2WD60006F
(LUPIN)
C3401
0.1/UFV
C3413
6V47/EHB
C3402
0.1/UFV
C3400
0.1/UFV
C3403
0.1/UFV
C3404
0.1/UFV
C3405
0.1/UFV
C3406
0.1/UFV
C3407
0.1/UFV
C3408
0.1/UFV
C3409
0.1/UFV
C3410
0.1/UFV
C3411
0.1/UFV
C3412
0.1/UFV
R3406 220/J3
R3407 470/J3
R3408 0/J3
R3409 PAT/J3
R3410 47K/J3
R3411 PAT/J3
R3400 0/J3
R3401 1000/J3
R3402 1000/J3
R3403 1000/J3
TP3409
TP3408
TP3410
TP3411
TP3406
TP3407
TP3404
TP3405
TP3412
TP3413
TP3414
TP3415
TP3416
TP3417
TP3418
TP3419
TP3420
TP3421
TP3422
TP3423
TP3424
TP3425
TP3426
TP3427
TP3428
TP3429
TP3430
TP3431
TP3432
TP3433
TP3434
TP3435
TP3436
TP3437
TP3438
TP3439
TP3440
TP3441
TP3442
TP3443
TP3444
TP3445
TP3446
TP3447
TP3448
TP3449
TP3450
TP3451

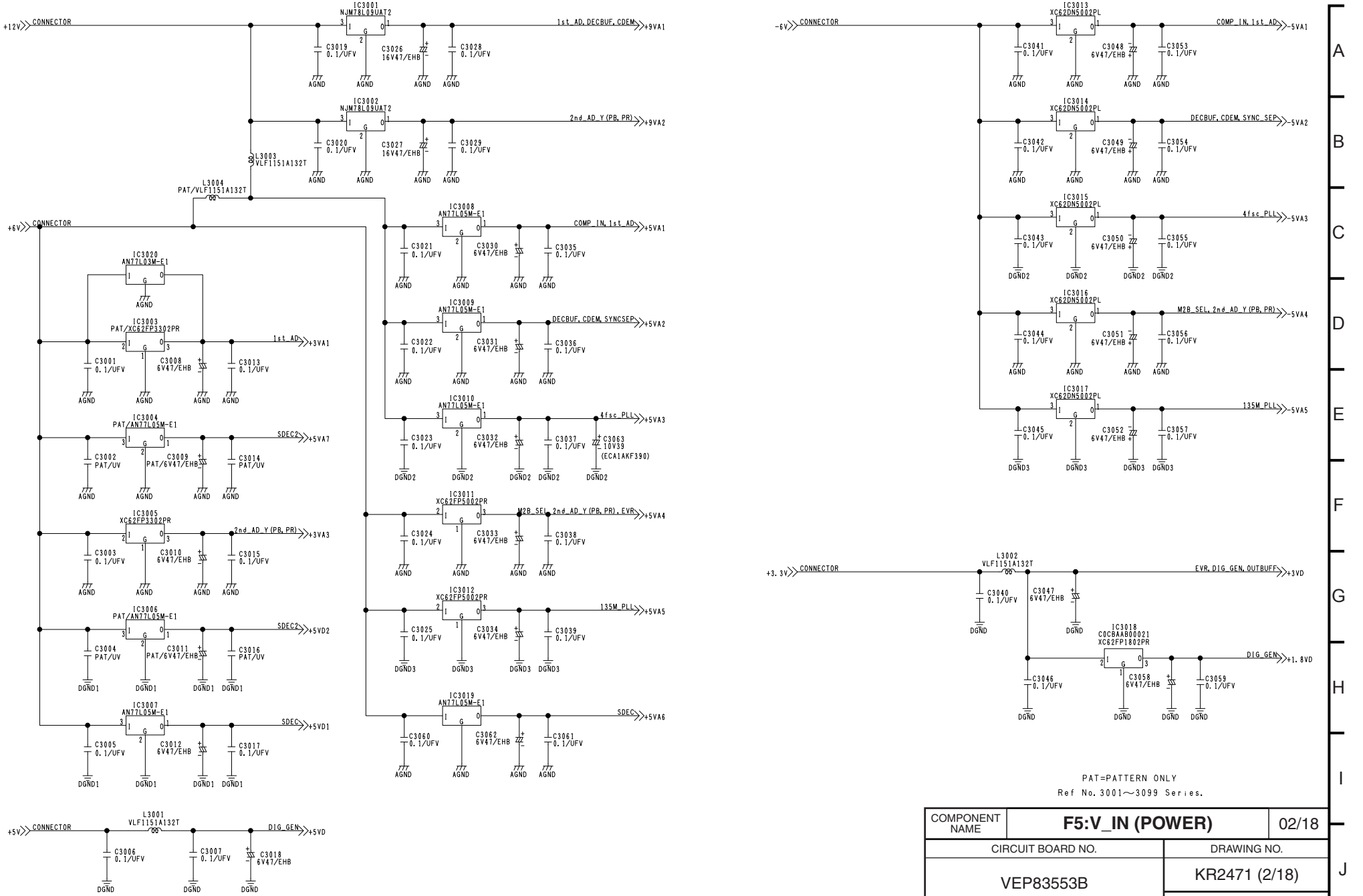


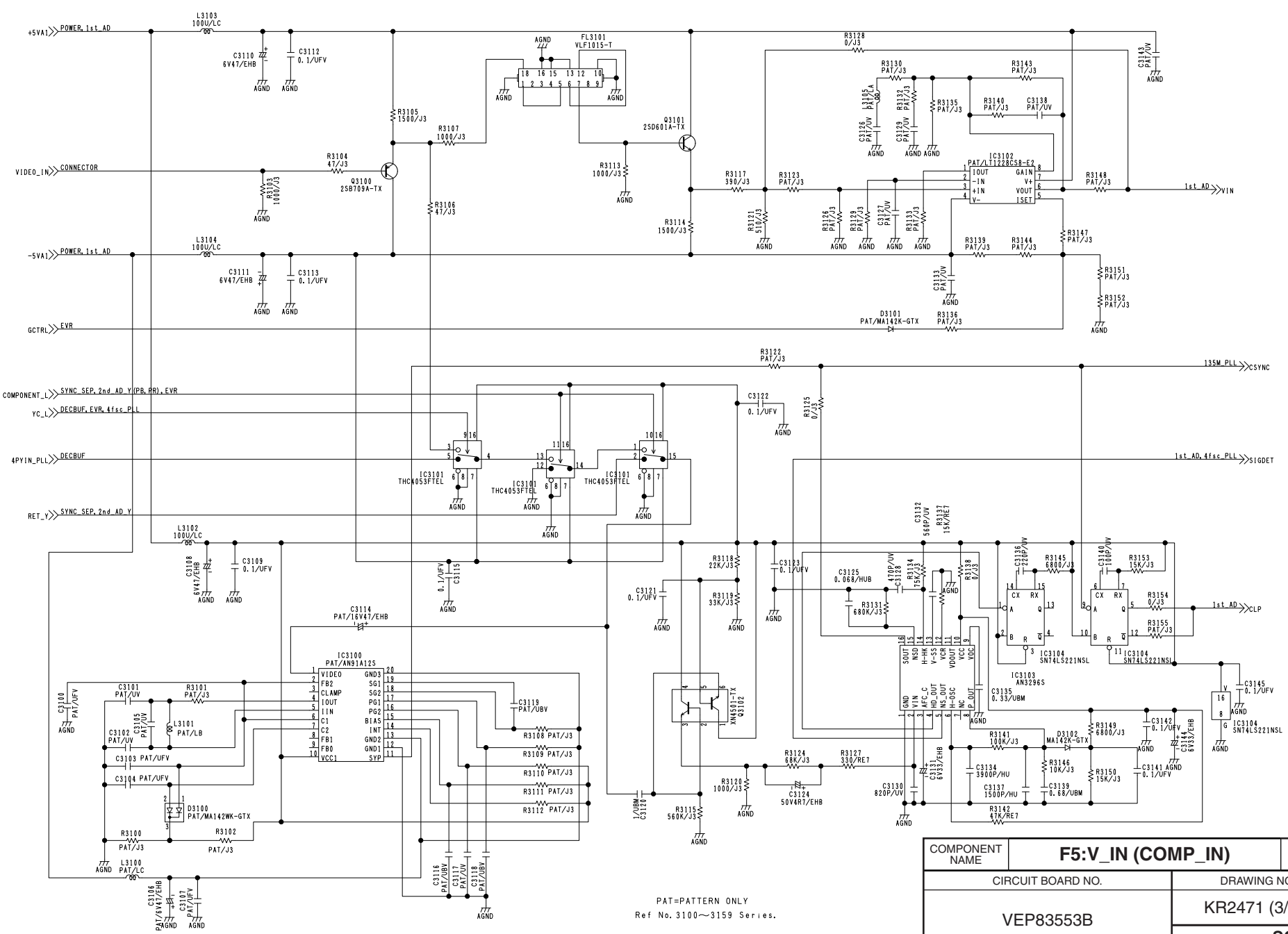
Ref No. 3500～ Series.

COMPONENT NAME	CSP SUB (RF_PLL)	06/06
CIRCUIT BOARD NO.		DRAWING NO.
VEP83555A		KR30089 (6/6)
		SCM062

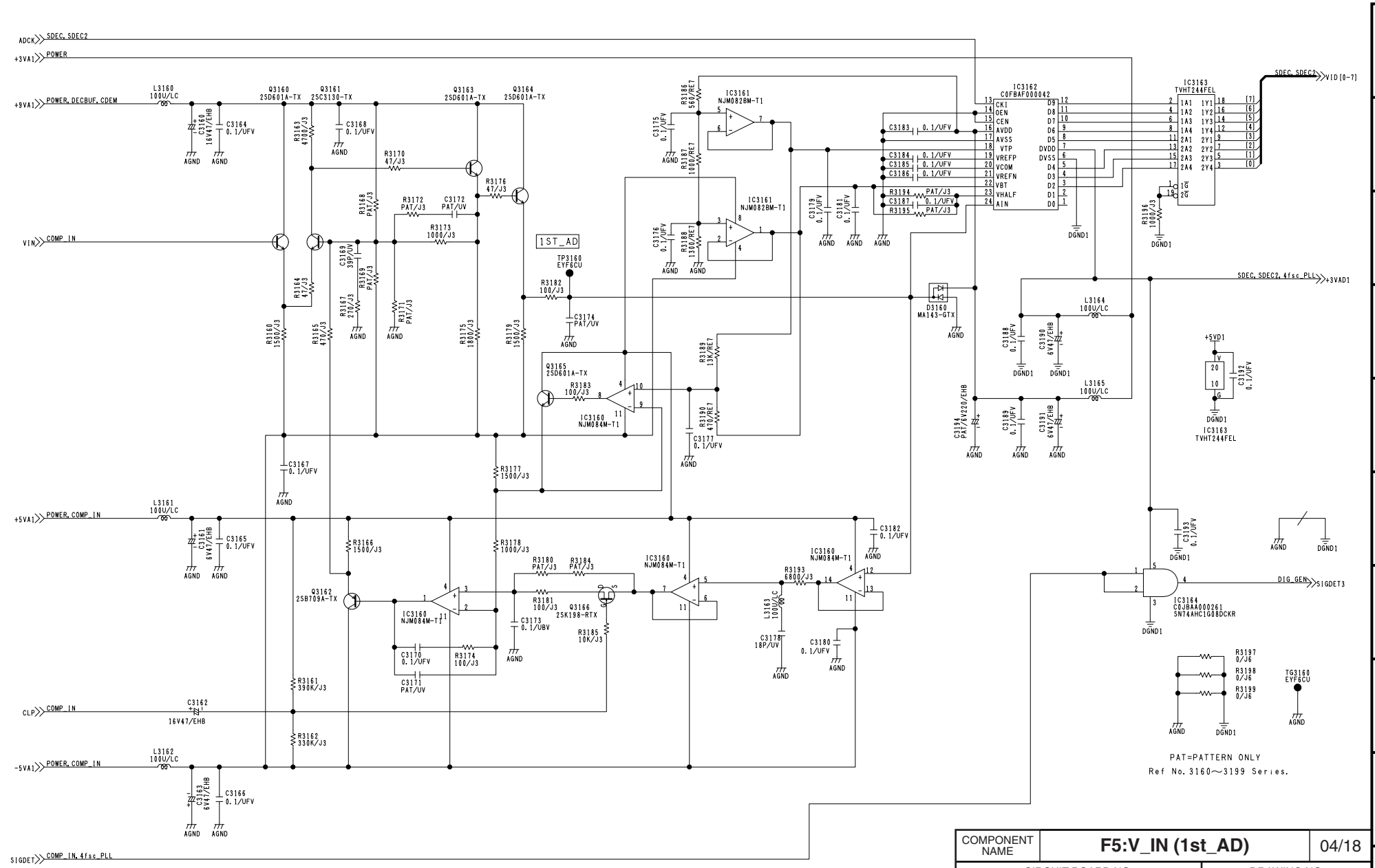


COMPONENT NAME	F5:V_IN (CONNECTOR)	01/18
CIRCUIT BOARD NO.		DRAWING NO.
VEP83553B		KR2471 (1/18)
		SCM063

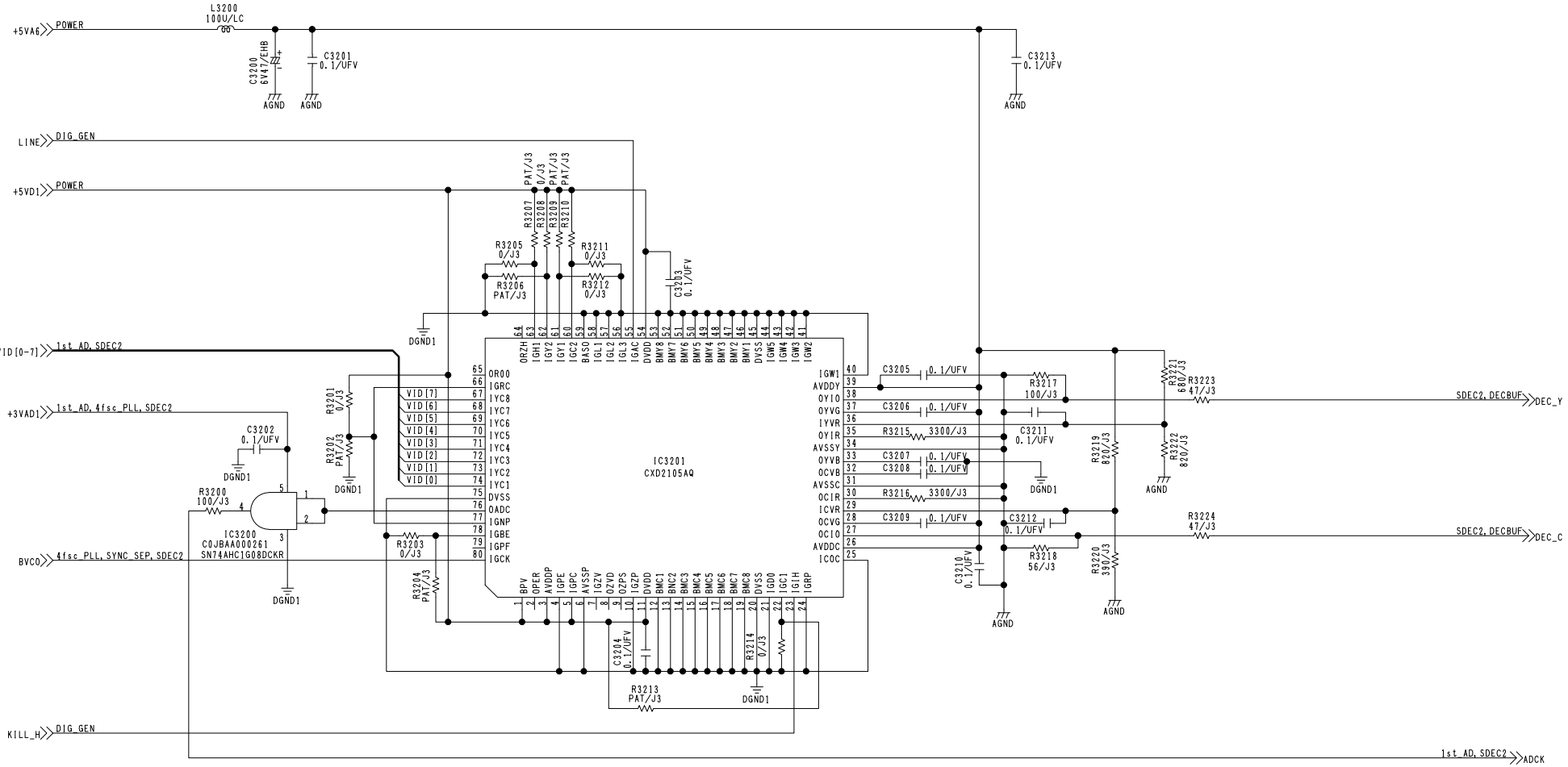

+12V
CONNECTOR
IC3001
NJM78L09UAT2
1st_AD, DECBUF, CDEM
+9VA1
C3019
0.1/UFV
C3026
16V47/EHB
C3028
0.1/UFV
IC3002
NJM78L09UAT2
2nd_AD_Y(PB, PR)
+9VA2
C3020
0.1/UFV
C3027
16V47/EHB
C3029
0.1/UFV
L3003
VLF1151A132T
L3004
PAT/VLF1151A132T
+6V
CONNECTOR
IC3008
AN77L05M-E1
COMP_IN, 1st_AD
+5VA1
C3021
0.1/UFV
C3030
6V47/EHB
C3035
0.1/UFV
IC3020
AN77L03M-E1
IC3003
PAT/XC62FP3302PR
1st_AD
+3VA1
C3001
0.1/UFV
C3008
6V47/EHB
C3013
0.1/UFV
IC3009
AN77L05M-E1
DECBUF, CDEM, SYNCSEP
+5VA2
C3022
0.1/UFV
C3031
6V47/EHB
C3036
0.1/UFV
IC3004
PAT/AN77L05M-E1
SDEC2
+5VA7
C3002
PAT/UV
C3009
PAT/6V47/EHB
C3014
PAT/UV
IC3010
AN77L05M-E1
4fsc_PLL
+5VA3
C3023
0.1/UFV
C3032
6V47/EHB
C3037
0.1/UFV
C3063
10V39
(ECA1AKF390)
IC3005
XC62FP3302PR
2nd_AD_Y(PB, PR)
+3VA3
C3003
0.1/UFV
C3010
6V47/EHB
C3015
0.1/UFV
IC3011
XC62FP5002PR
M2B_SEL, 2nd_AD_Y(PB, PR), EVR
+5VA4
C3024
0.1/UFV
C3033
6V47/EHB
C3038
0.1/UFV
IC3006
PAT/AN77L05M-E1
SDEC2
+5VD2
C3004
PAT/UV
C3011
PAT/6V47/EHB
C3016
PAT/UV
IC3012
XC62FP5002PR
135M_PLL
+5VA5
C3025
0.1/UFV
C3034
6V47/EHB
C3039
0.1/UFV
IC3007
AN77L05M-E1
SDEC
+5VD1
C3005
0.1/UFV
C3012
6V47/EHB
C3017
0.1/UFV
IC3019
AN77L05M-E1
SDEC
+5VA6
C3060
0.1/UFV
C3062
6V47/EHB
C3061
0.1/UFV
+5V
CONNECTOR
L3001
VLF1151A132T
DIG_GEN
+5VD
C3006
0.1/UFV
C3007
0.1/UFV
C3018
6V47/EHB
-6V
CONNECTOR
IC3013
XC62DN5002PL
COMP_IN, 1st_AD
-5VA1
C3041
0.1/UFV
C3048
6V47/EHB
C3053
0.1/UFV
IC3014
XC62DN5002PL
DECBUF, CDEM, SYNC_SEP
-5VA2
C3042
0.1/UFV
C3049
6V47/EHB
C3054
0.1/UFV
IC3015
XC62DN5002PL
4fsc_PLL
-5VA3
C3043
0.1/UFV
C3050
6V47/EHB
C3055
0.1/UFV
IC3016
XC62DN5002PL
M2B_SEL, 2nd_AD_Y(PB, PR)
-5VA4
C3044
0.1/UFV
C3051
6V47/EHB
C3056
0.1/UFV
IC3017
XC62DN5002PL
135M_PLL
-5VA5
C3045
0.1/UFV
C3052
6V47/EHB
C3057
0.1/UFV
+3.3V
CONNECTOR
L3002
VLF1151A132T
EVR, DIG_GEN, OUTBUFF
+3VD
C3040
0.1/UFV
C3047
6V47/EHB
IC3018
C0CBAAB00021
XC62FP1802PR
DIG_GEN
+1.8VD
C3046
0.1/UFV
C3058
6V47/EHB
C3059
0.1/UFV
AGND
DGND
DGND1
DGND2
DGND3
PAT=PATTERN ONLY
Ref No. 3001～3099 Series.
COMPONENT NAME
F5:V_IN (POWER)
02/18
CIRCUIT BOARD NO.
VEP83553B
DRAWING NO.
KR2471 (2/18)
SCM064
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15



COMPONENT NAME	F5:V_IN (COMP_IN)	03/18
CIRCUIT BOARD NO.		DRAWING NO.
VEP83553B		KR2471 (3/18)
		SCM065



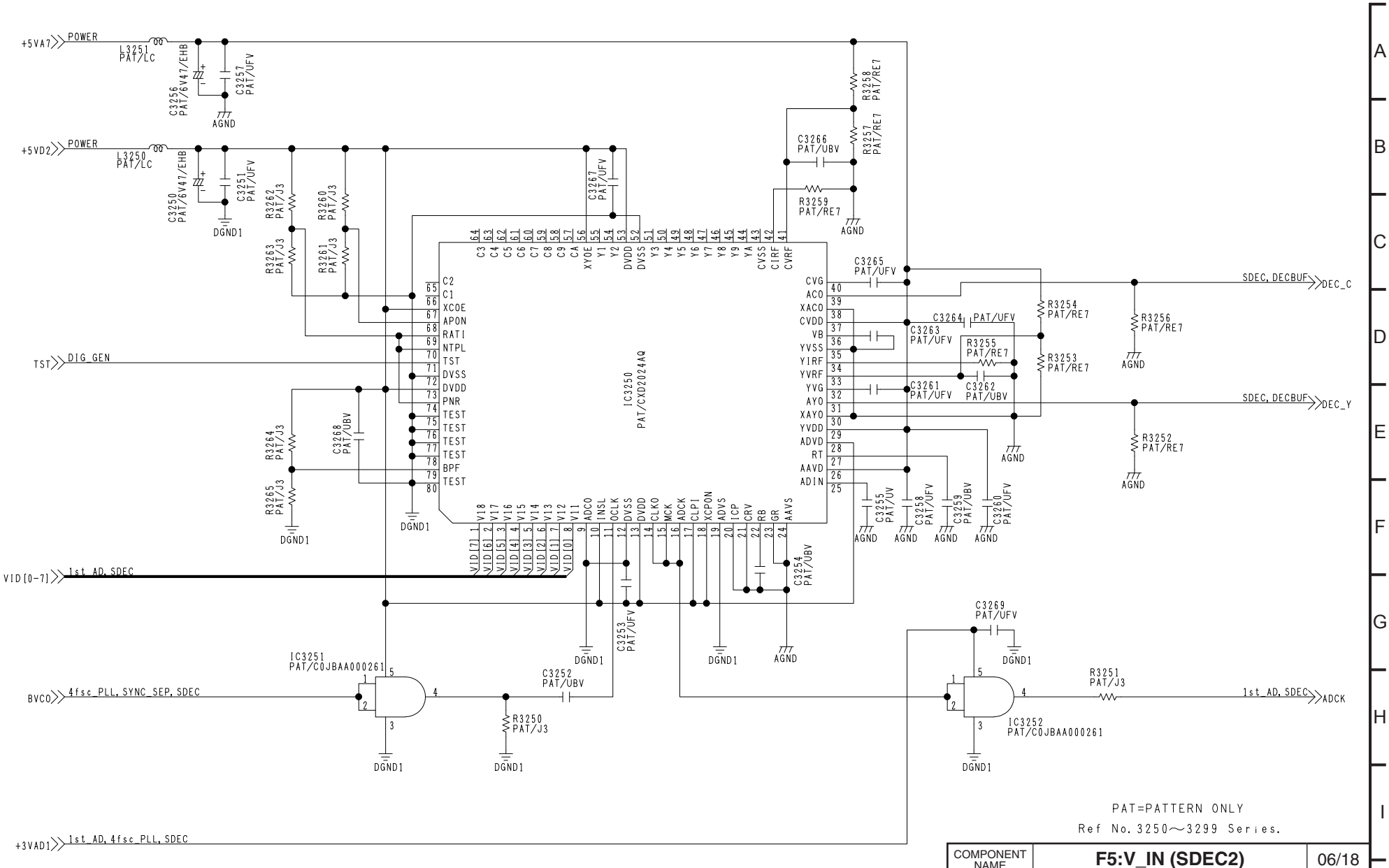
COMPONENT NAME	F5:V_IN (1st_AD)	04/18
CIRCUIT BOARD NO.		DRAWING NO.
VEP83553B		KR2471 (4/18)
		SCM066



PAT=PATTERN ONLY

Ref No. 3200～3249 Series.

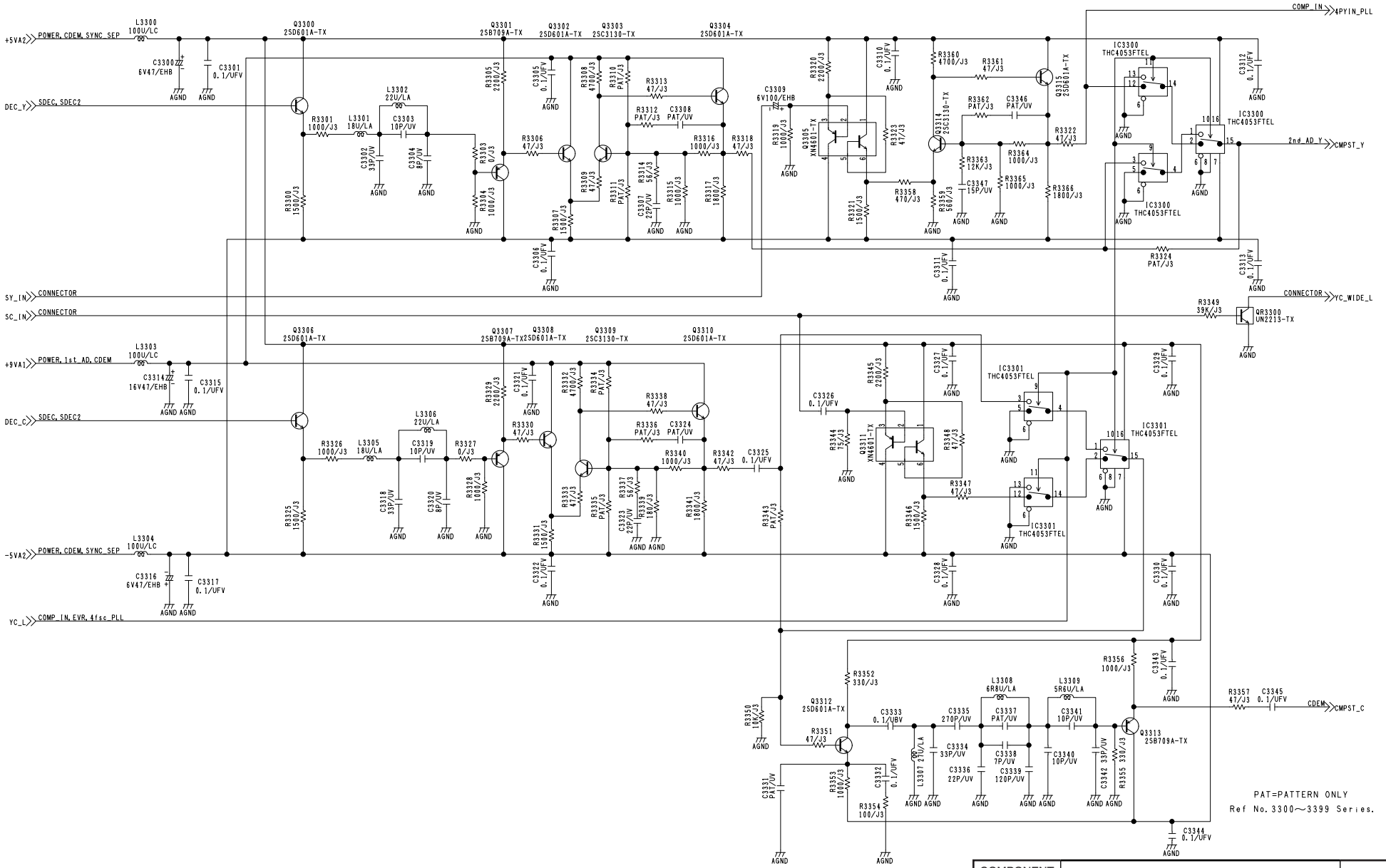
COMPONENT NAME	F5:V_IN (SDEC)	05/18
CIRCUIT BOARD NO.		DRAWING NO.
VEP83553B		KR2471 (5/18)
		SCM067



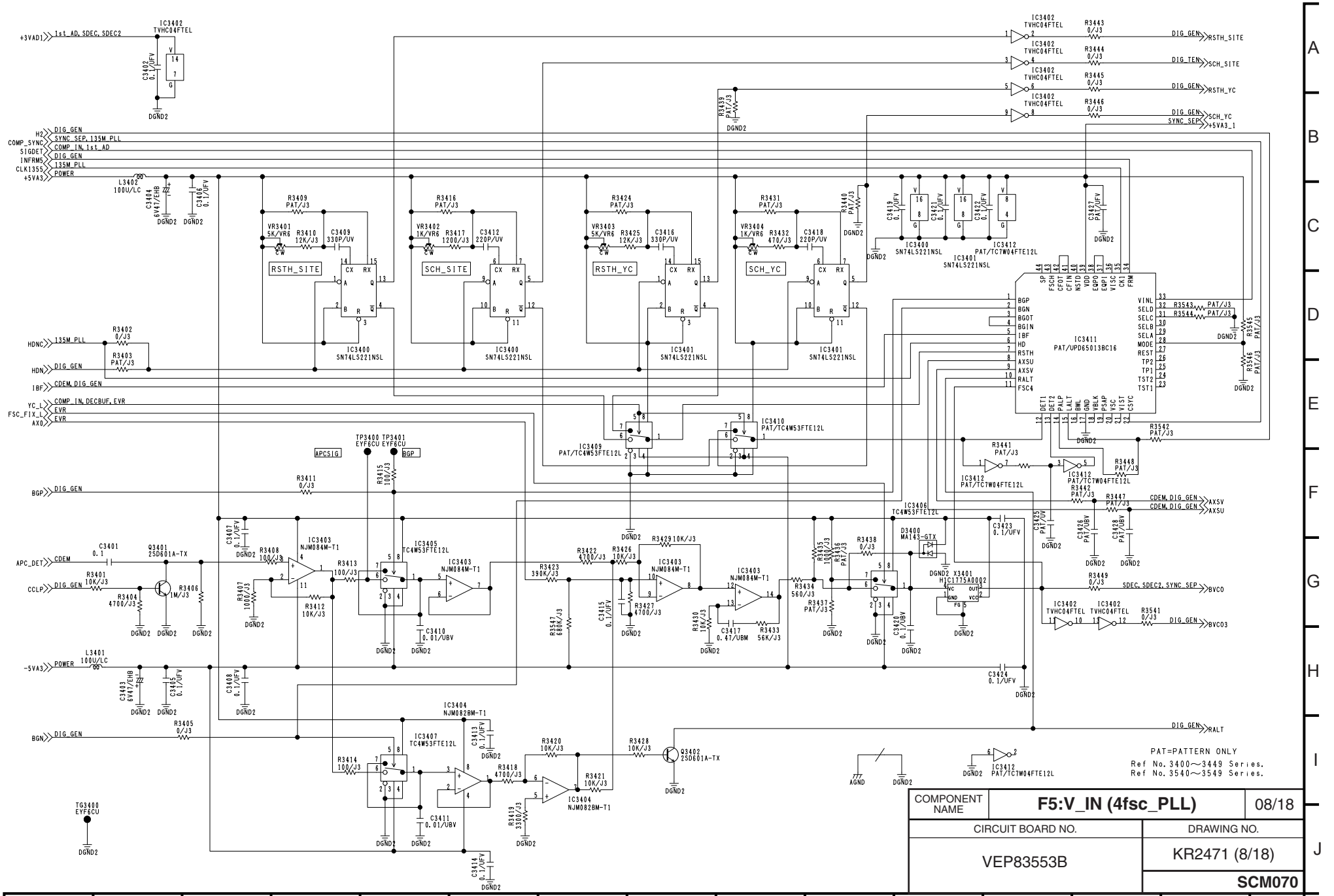
PAT=PATTERN ONLY

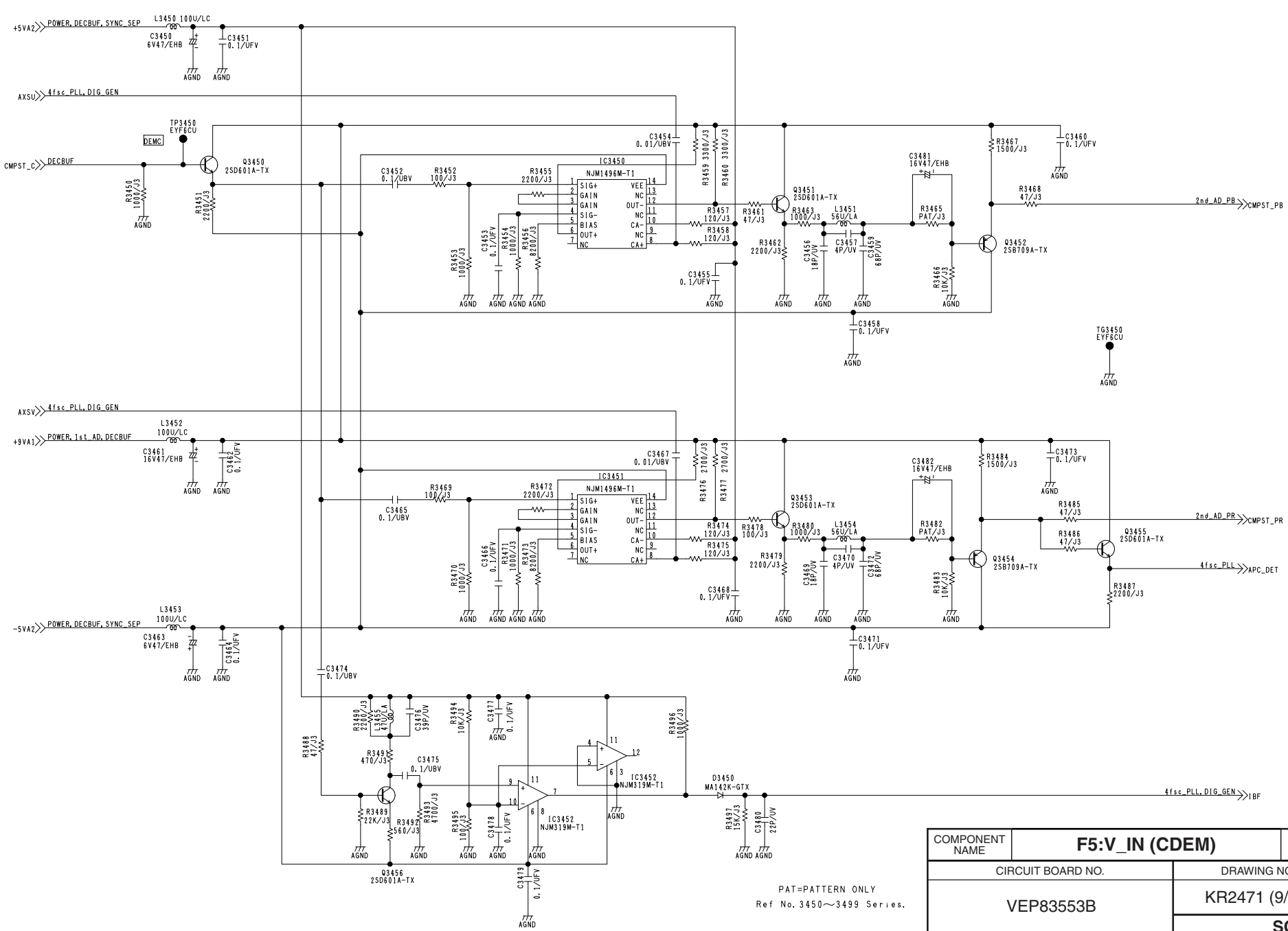
Ref No. 3250～3299 Series.

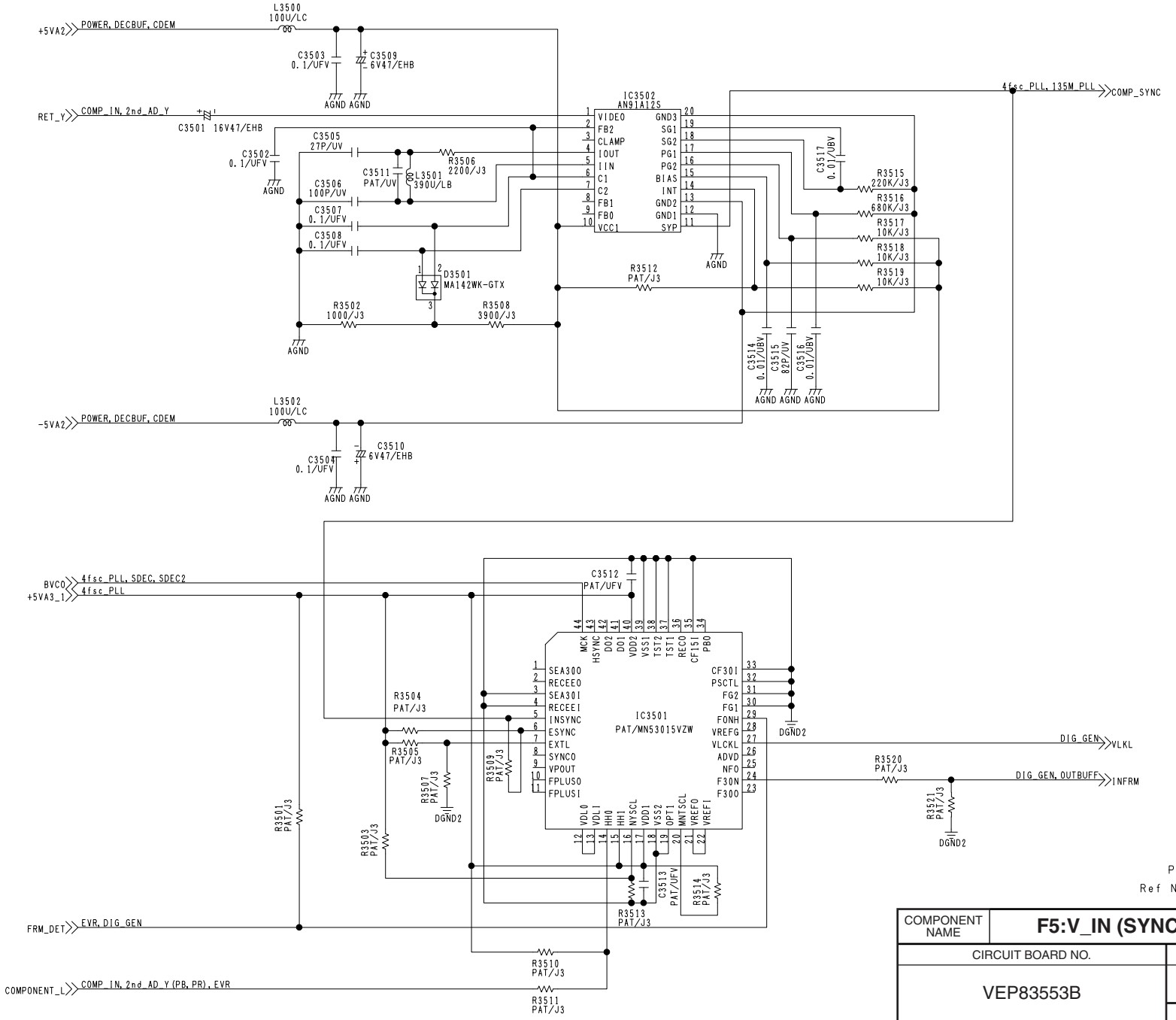
COMPONENT NAME	F5:V_IN (SDEC2)	06/18
CIRCUIT BOARD NO.		DRAWING NO.
VEP83553B		KR2471 (6/18)
		SCM068



COMPONENT NAME	F5:V_IN (DECBUF)	07/18
CIRCUIT BOARD NO.		DRAWING NO.
VEP83553B		KR2471 (7/18)
		SCM069

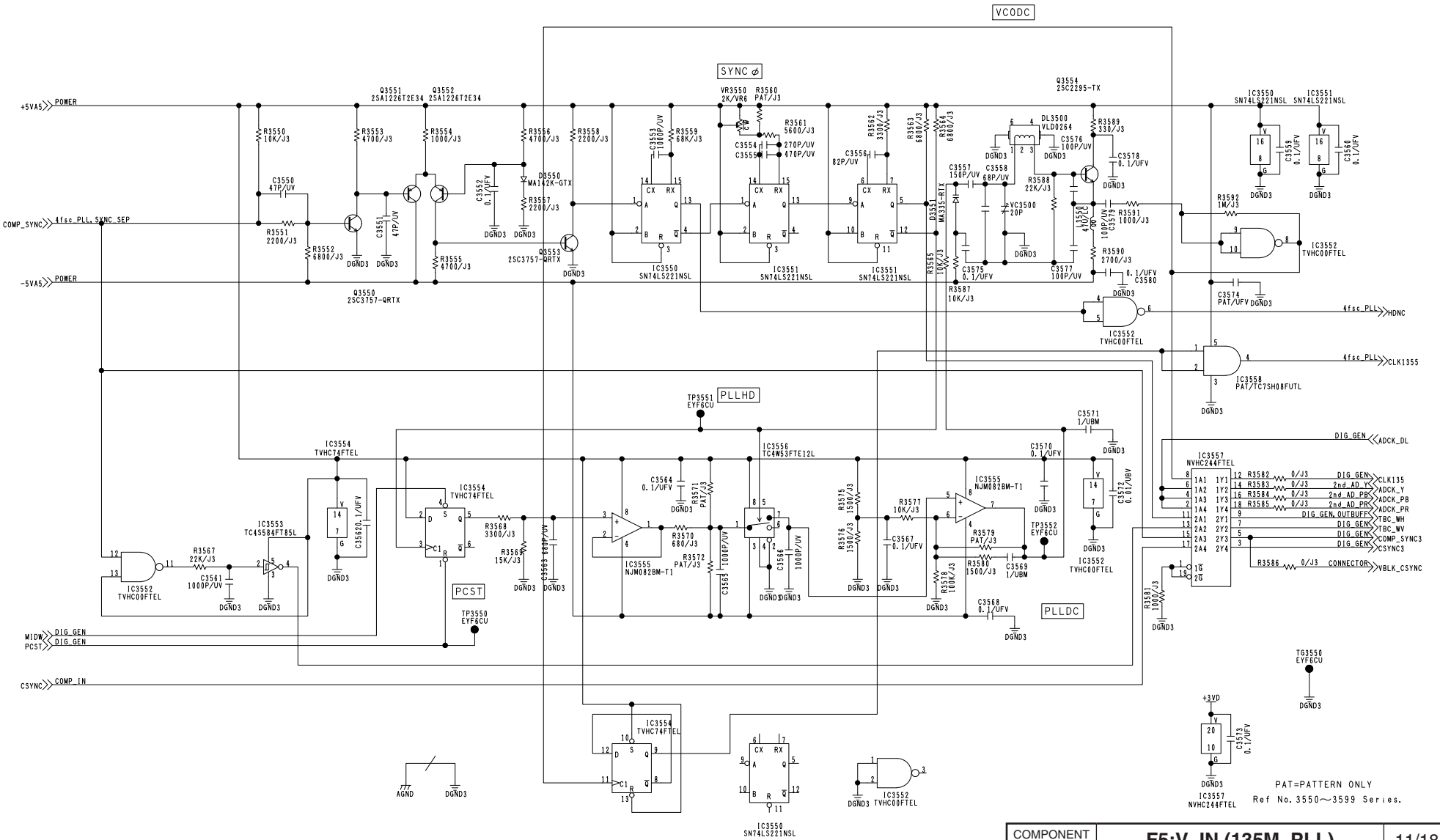

+3VAD1
1st_AD, SDEC, SDEC2
IC3402 TVHC04FTEL
C3402 0.1/UFV
DGND2
H2
COMP_SYNC
SIGDET
INFRM5
CLK1355
+5VA3
DIG_GEN
SYNC SEP, 135M_PLL
COMP_IN, 1st_AD
DIG GEN
135M_PLL
POWER
L3402 100U/LC
C3404 6V47/EHB
C3440 0.1/UFV
R3409 PAT/J3
VR3401 5K/VR6
R3410 12K/J3
C3409 330P/UV
RSTH_SITE
IC3400 SN74LS221NSL
R3416 PAT/J3
VR3402 1K/VR6
R3417 1200/J3
C3412 220P/UV
SCH_SITE
R3424 PAT/J3
VR3403 5K/VR6
R3425 12K/J3
C3416 330P/UV
RSTH_YC
IC3401 SN74LS221NSL
R3431 PAT/J3
VR3404 1K/VR6
R3432 470/J3
C3418 220P/UV
SCH_YC
R3440 PAT/J3
R3439 PAT/J3
C3419 0.1/UFV
C3421 0.1/UFV
C3422 0.1/UFV
IC3412 PAT/TC7W04FTE12L
C3427 PAT/UFV
R3443 0/J3
R3444 0/J3
R3445 0/J3
R3446 0/J3
DIG_GEN
RSTH_SITE
SCH_SITE
RSTH_YC
SCH_YC
SYNC_SEP
+5VA3_1
IC3411 PAT/UPD65013BC16
R3543 PAT/J3
R3544 PAT/J3
R3545 PAT/J3
R3546 PAT/J3
R3542 PAT/J3
R3441 PAT/J3
R3448 PAT/J3
R3442 PAT/J3
R3447 PAT/J3
CDEM, DIG_GEN
AXSV
AXSU
R3402 0/J3
R3403 PAT/J3
HDNC
HDN
IBF
CDEM, DIG_GEN
YC_L
FSC_FIX_L
AXO
COMP_IN, DECBUF, EVR
EVR
IC3409 PAT/TC4W53FTE12L
IC3410 PAT/TC4W53FTE12L
TP3400 EYF6CU
TP3401 EYF6CU
APCSIG
BGP
R3411 0/J3
R3415 100/J3
IC3406 TC4W53FTE12L
C3423 0.1/UFV
C3425 PAT/UFV
C3426 PAT/UBV
C3428 PAT/UBV
D3400 MA143-GTX
X3401 H1C1775A0002
R3449 0/J3
SDEC, SDEC2, SYNC_SEP
BVCO
R3541 0/J3
BVCO3
C3401 0.1
Q3401 2SD601A-TX
APC_DET
CDEM
CCLP
R3401 10K/J3
R3404 4700/J3
R3406 1M/J3
IC3403 NJM084M-T1
IC3405 TC4W53FTE12L
R3407 100/J3
R3408 100/J3
R3412 10K/J3
R3413 100/J3
C3410 0.01/UBV
R3422 4700/J3
R3426 10K/J3
R3429 10K/J3
R3423 390K/J3
R3547 680K/J3
C3415 0.1/UFV
R3427 4700/J3
R3430 10K/J3
C3417 0.47/UBM
R3433 56K/J3
R3434 560/J3
R3435 100/J3
R3436 PAT/J3
R3437 PAT/J3
R3438 0/J3
C3420 0.1/UBV
C3424 0.1/UFV
L3401 100U/LC
-5VA3
C3403 6V47/EHB
C3405 0.1/UFV
C3408 0.1/UFV
IC3404 NJM082BM-T1
IC3407 TC4W53FTE12L
R3405 0/J3
BGN
C3413 0.1/UFV
R3414 100/J3
R3418 4700/J3
R3420 10K/J3
R3421 10K/J3
R3419 330/J3
C3411 0.01/UBV
C3414 0.1/UFV
R3428 10K/J3
Q3402 2SD601A-TX
TG3400 EYF6CU
DGND2
AGND
RALT
PAT=PATTERN ONLY
Ref No. 3400～3449 Series.
Ref No. 3540～3549 Series.
COMPONENT NAME
F5:V_IN (4fsc_PLL)
08/18
CIRCUIT BOARD NO.
VEP83553B
DRAWING NO.
KR2471 (8/18)
SCM070


+5VA2
POWER, DECBUF, SYNC_SEP
L3450 100U/LC
C3450 6V47/EHB
C3451 0.1/UFV
AXSU
4fsc_PLL, DIG_GEN
TP3450 EYF6CU
DEMC
CMPST_C
DECBUF
Q3450 2SD601A-TX
R3450 1000/J3
R3451 2200/J3
C3452 0.1/UBV
R3452 100/J3
IC3450 NJM1496M-T1
SIG+ GAIN GAIN SIG- BIAS OUT+ NC
VEE NC OUT- NC CA- NC CA+
R3455 2200/J3
C3453 0.1/UFV
R3454 1000/J3
R3456 8200/J3
R3453 1000/J3
C3454 0.01/UBV
R3459 3300/J3
R3460 3300/J3
R3457 120/J3
R3458 120/J3
C3455 0.1/UFV
Q3451 2SD601A-TX
R3461 47/J3
R3462 2200/J3
C3456 18P/UV
C3457 4P/UV
C3465 68P/UV
L3451 56U/LA
R3463 1000/J3
C3481 16V47/EHB
R3465 PAT/J3
R3466 10K/J3
Q3452 2SB709A-TX
R3467 1500/J3
C3460 0.1/UFV
R3468 47/J3
2nd_AD_PB
CMPST_PB
C3458 0.1/UFV
TG3450 EYF6CU
AXSV
4fsc_PLL, DIG_GEN
+9VA1
POWER, 1st_AD, DECBUF
L3452 100U/LC
C3461 16V47/EHB
C3462 0.1/UFV
C3467 0.01/UBV
R3469 100/J3
C3465 0.1/UBV
IC3451 NJM1496M-T1
R3472 2200/J3
R3470 1000/J3
C3466 0.1/UFV
R3471 1000/J3
R3473 8200/J3
R3476 2700/J3
R3477 2700/J3
R3474 120/J3
R3475 120/J3
C3468 0.1/UFV
Q3453 2SD601A-TX
R3478 100/J3
R3480 1000/J3
R3479 2200/J3
C3469 18P/UV
C3470 4P/UV
C3466 68P/UV
L3454 56U/LA
C3482 16V47/EHB
R3482 PAT/J3
R3483 10K/J3
Q3454 2SB709A-TX
R3484 1500/J3
C3473 0.1/UFV
R3485 47/J3
2nd_AD_PR
CMPST_PR
R3486 47/J3
Q3455 2SD601A-TX
4fsc_PLL
APC_DET
R3487 2200/J3
C3471 0.1/UFV
-5VA2
POWER, DECBUF, SYNC_SEP
L3453 100U/LC
C3463 6V47/EHB
C3464 0.1/UFV
C3474 0.1/UBV
R3490 2200/J3
L3455 47U/LA
C3476 39P/UV
R3494 10K/J3
C3477 0.1/UFV
R3496 1000/J3
R3488 47/J3
R3491 470/J3
C3475 0.1/UBV
IC3452 NJM319M-T1
D3450 MA142K-GTX
4fsc_PLL, DIG_GEN
1BF
R3489 22K/J3
R3492 560/J3
R3493 4700/J3
R3495 100/J3
C3478 0.1/UFV
IC3452 NJM319M-T1
R3497 15K/J3
C3480 220/UV
Q3456 2SD601A-TX
C3479 0.1/UFV
AGND
PAT=PATTERN ONLY
Ref No. 3450～3499 Series.
COMPONENT NAME
F5:V_IN (CDEM)
09/18
CIRCUIT BOARD NO.
VEP83553B
DRAWING NO.
KR2471 (9/18)
SCM071

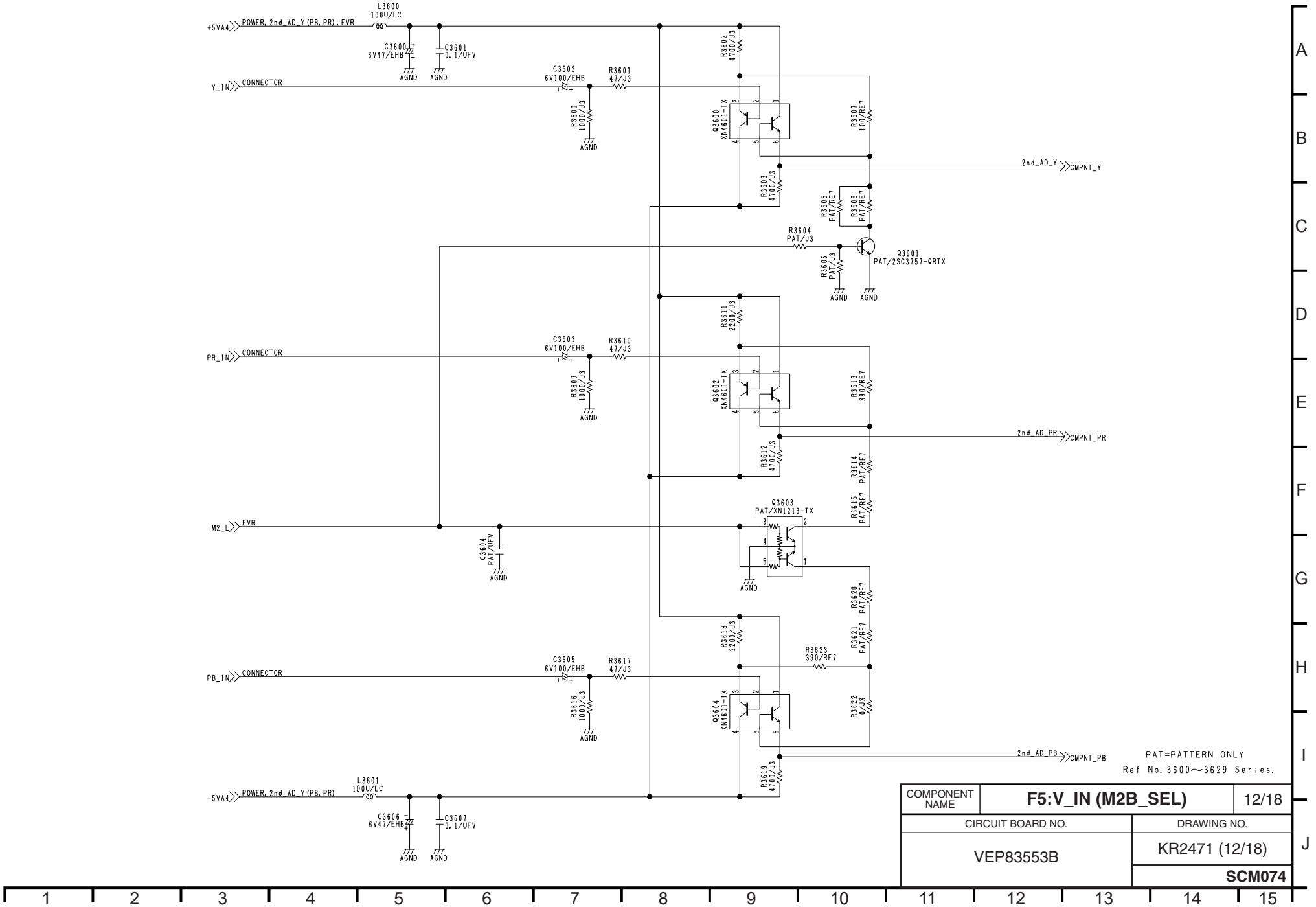


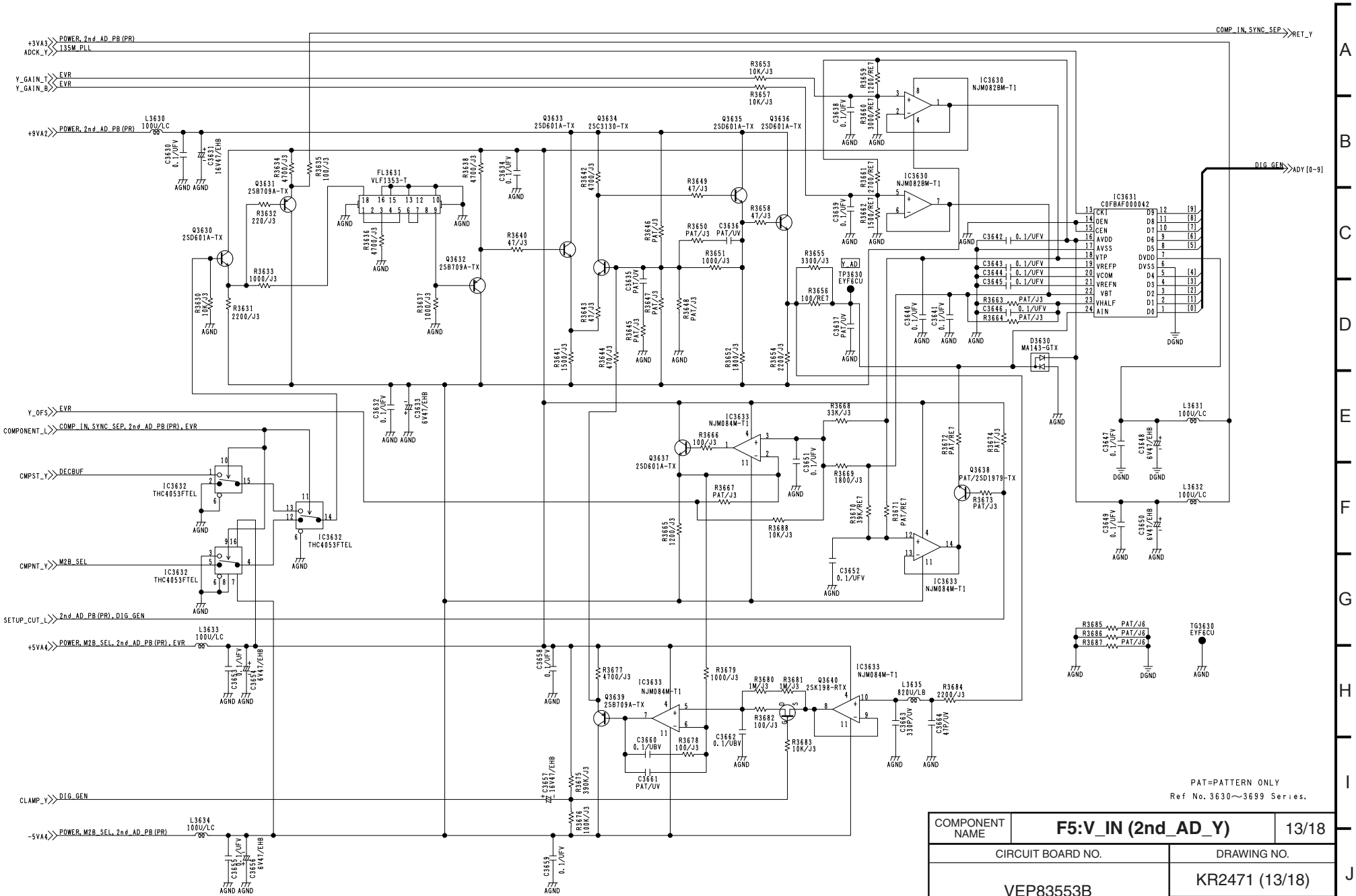
PAT=PATTERN ONLY
Ref No. 3500～3539 Series.

COMPONENT NAME	F5:V_IN (SYNC_SEP)	10/18
CIRCUIT BOARD NO.		DRAWING NO.
VEP83553B		KR2471 (10/18)
		SCM072

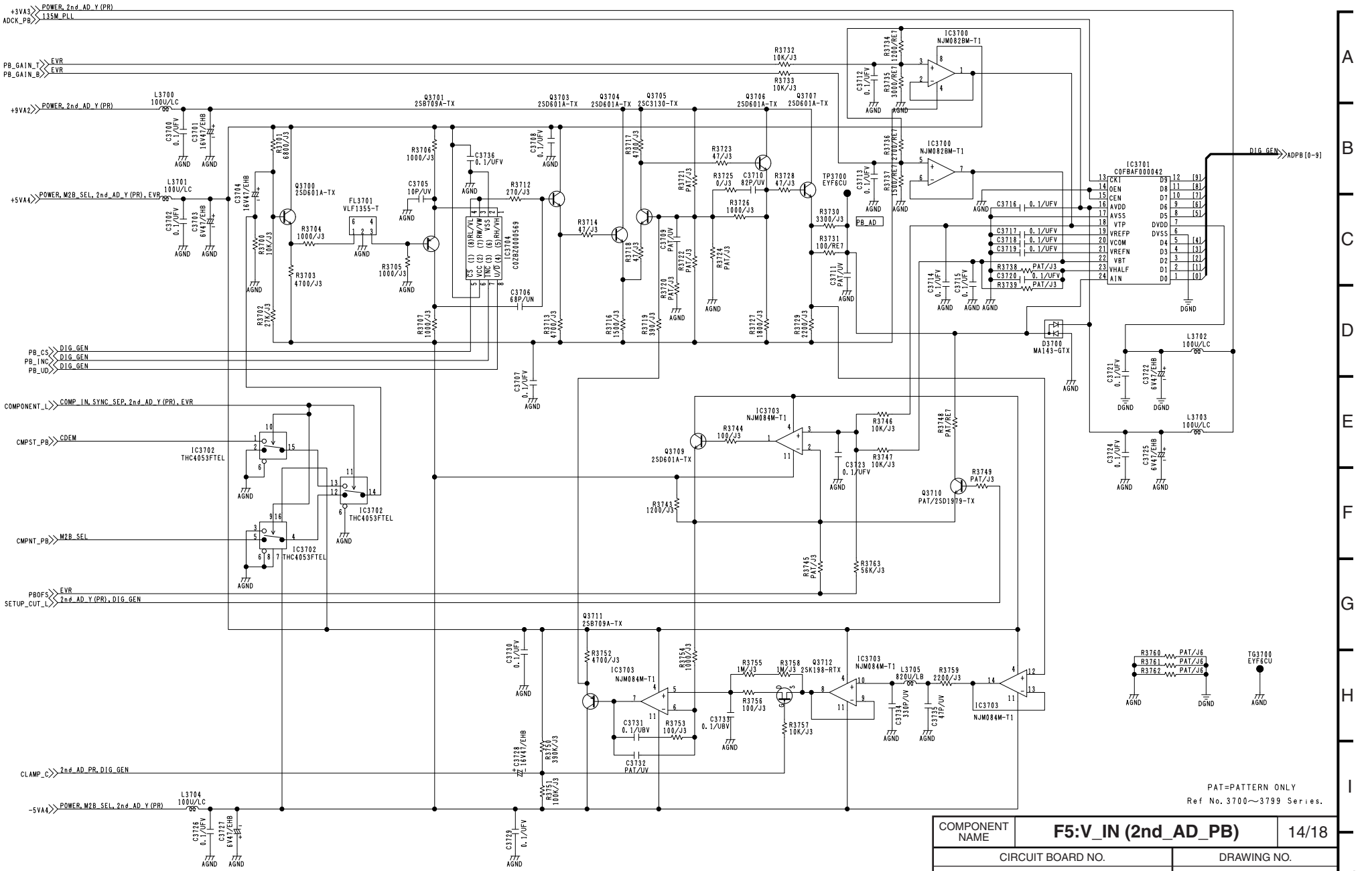


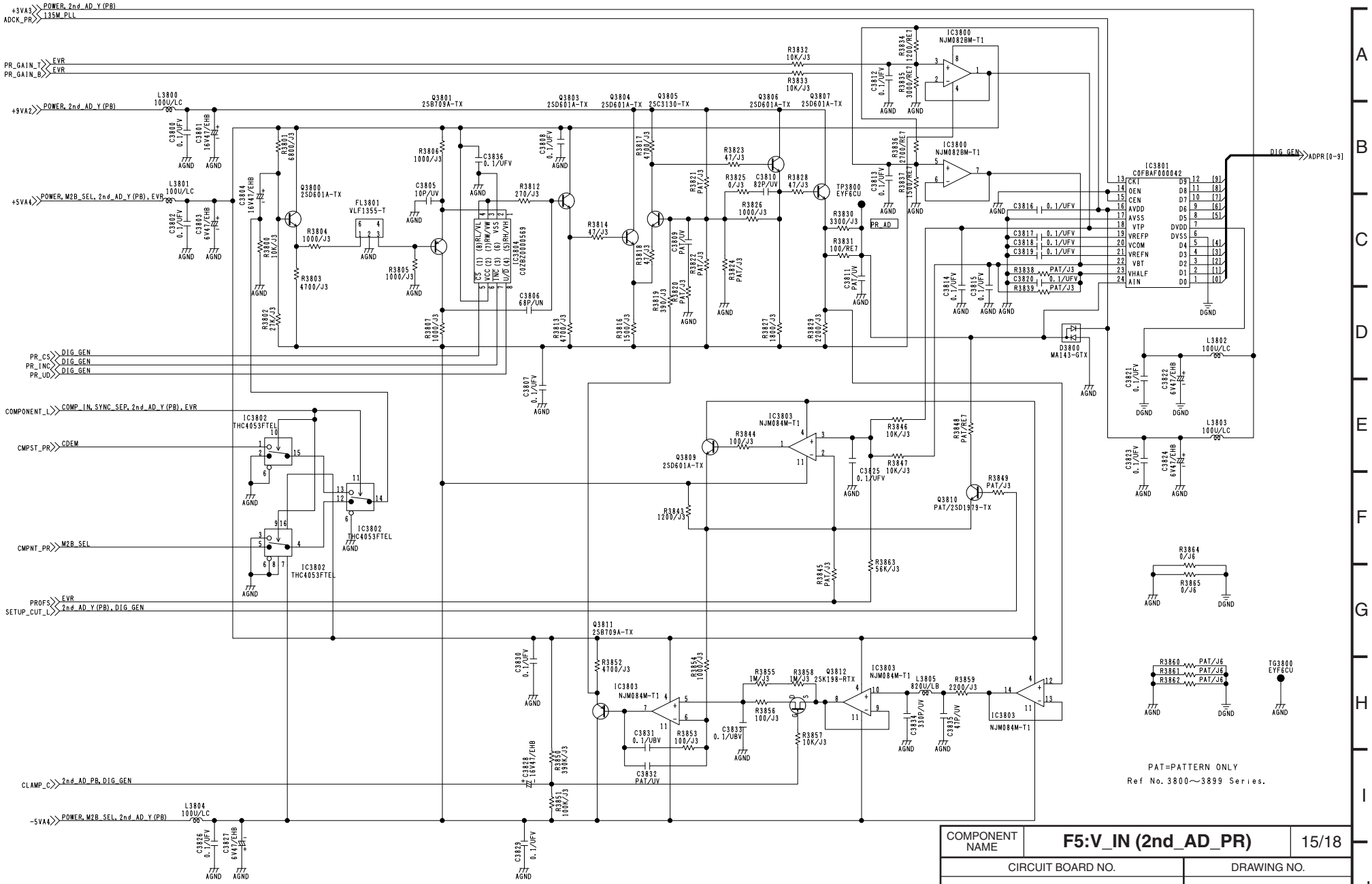
COMPONENT NAME	F5:V_IN (135M_PLL)	11/18
CIRCUIT BOARD NO.		DRAWING NO.
VEP83553B		KR2471 (11/18)
		SCM073

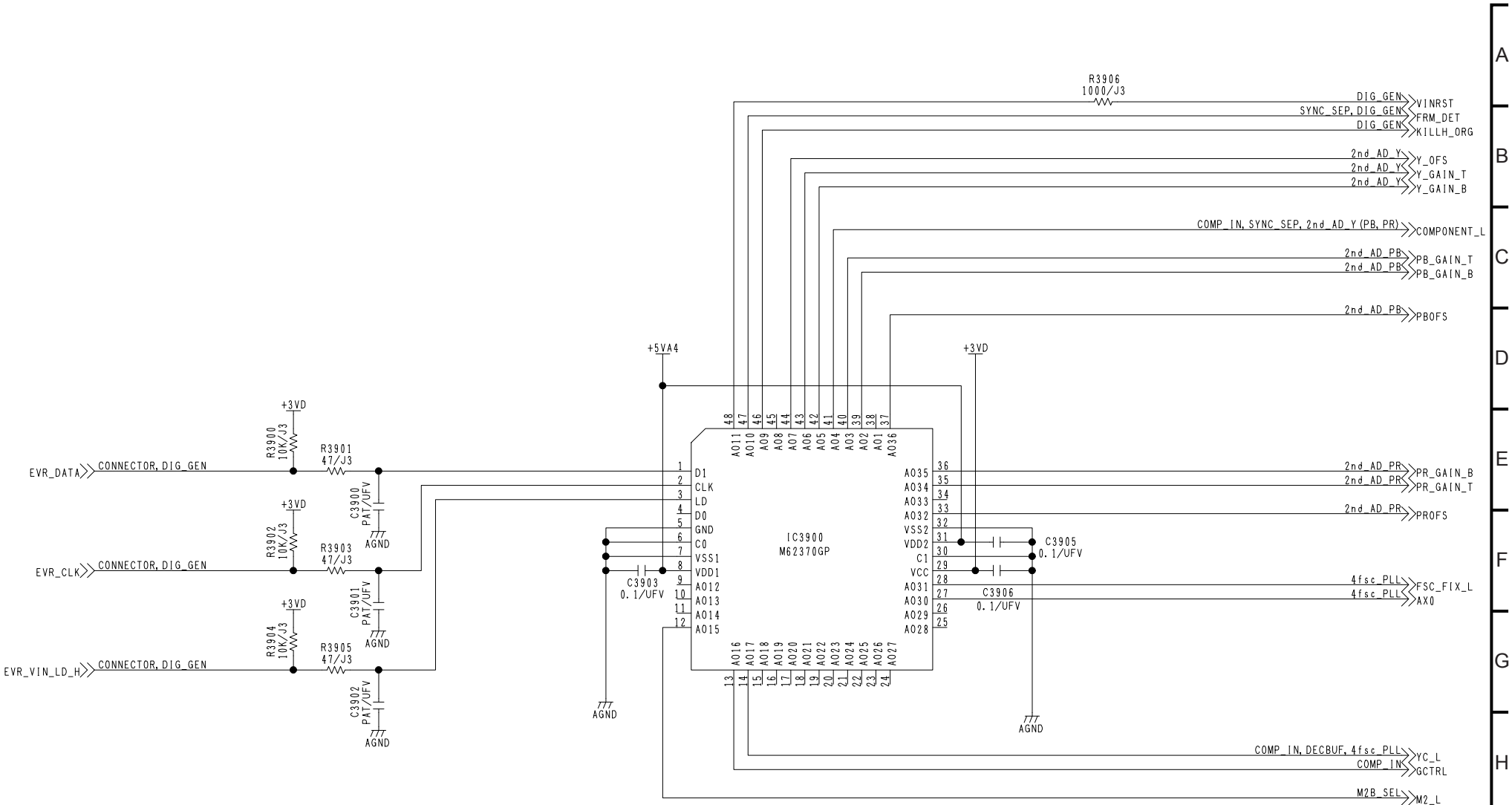

L3600 100U/LC
+5VA4
POWER, 2nd_AD_Y(PB,PR), EVR
C3600 6V47/EHB
C3601 0.1/UFV
AGND
Y_IN
CONNECTOR
C3602 6V100/EHB
R3601 47/J3
R3600 1000/J3
R3602 4700/J3
Q3600 XN4601-TX
R3607 100/RE7
2nd_AD_Y
CMPNT_Y
R3603 4700/J3
R3605 PAT/RE7
R3608 PAT/RE7
R3604 PAT/J3
Q3601 PAT/2SC3757-QRTX
R3606 PAT/J3
PR_IN
C3603 6V100/EHB
R3610 47/J3
R3609 1000/J3
R3611 2200/J3
Q3602 XN4601-TX
R3613 390/RE7
2nd_AD_PR
CMPNT_PR
R3612 4700/J3
R3614 PAT/RE7
R3615 PAT/RE7
M2_L
EVR
C3604 PAT/UFV
Q3603 PAT/XN1213-TX
R3620 PAT/RE7
R3618 2200/J3
R3621 PAT/RE7
R3623 390/RE7
PB_IN
C3605 6V100/EHB
R3617 47/J3
R3616 1000/J3
Q3604 XN4601-TX
R3622 0/J3
2nd_AD_PB
CMPNT_PB
R3619 4700/J3
-5VA4
L3601 100U/LC
POWER, 2nd_AD_Y(PB,PR)
C3606 6V47/EHB
C3607 0.1/UFV
PAT=PATTERN ONLY
Ref No. 3600～3629 Series.
COMPONENT NAME
F5:V_IN (M2B_SEL)
12/18
CIRCUIT BOARD NO.
VEP83553B
DRAWING NO.
KR2471 (12/18)
SCM074
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15



COMPONENT NAME	F5:V_IN (2nd_AD_Y)	13/18
CIRCUIT BOARD NO.		DRAWING NO.
VEP83553B		KR2471 (13/18)
		SCM075


+3VA3
ADCK_PB
POWER, 2nd_AD_Y(PR)
135M_PLL
PB_GAIN_T
PB_GAIN_B
EVR
+9VA2
+5VA4
-5VA4
POWER, M2B_SEL, 2nd_AD_Y(PR), EVR
PB_CS
PB_INC
PB_UD
DIG_GEN
COMPONENT_L
COMP_IN, SYNC_SEP, 2nd_AD_Y(PR), EVR
CMPST_PB
CDEM
CMPNT_PB
M2B_SEL
PBOFS
SETUP_CUT_L
2nd_AD_Y(PR), DIG_GEN
CLAMP_C
2nd_AD_PR, DIG_GEN
ADPB[0-9]
PB_AD
TP3700 EYF6CU
TG3700 EYF6CU
IC3700 NJM082BM-T1
IC3701 C0FBAF000042
IC3702 THC4053FTEL
IC3703 NJM084M-T1
D3700 MA143-GTX
FL3701 VLF1355-T
IC3704 C02BZ0000569
Q3700 2SD601A-TX
Q3701 2SB709A-TX
Q3703 2SD601A-TX
Q3704 2SD601A-TX
Q3705 2SC3130-TX
Q3706 2SD601A-TX
Q3707 2SD601A-TX
Q3709 2SD601A-TX
Q3710 PAT/2SD1979-TX
Q3711 2SB709A-TX
Q3712 2SK198-RTX
AGND
DGND
PAT=PATTERN ONLY
Ref No. 3700～3799 Series.
COMPONENT NAME
F5:V_IN (2nd_AD_PB)
14/18
CIRCUIT BOARD NO.
VEP83553B
DRAWING NO.
KR2471 (14/18)
SCM076

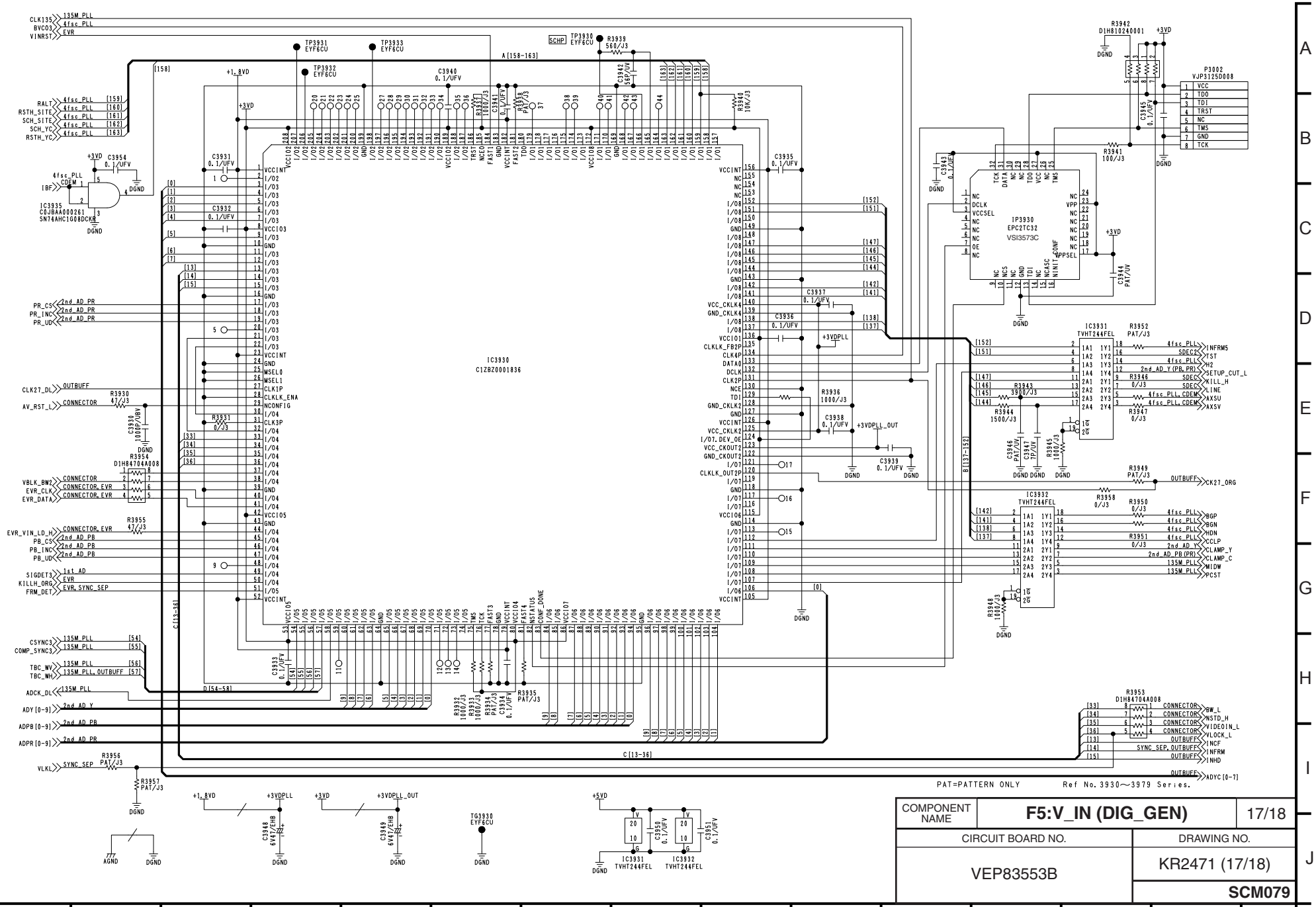

+3VA3
ADCK_PR
POWER, 2nd_AD_Y (PB)
135M_PLL
PR_GAIN_T
PR_GAIN_B
EVR
+9VA2
+5VA4
POWER, M2B_SEL, 2nd_AD_Y (PB), EVR
-5VA4
POWER, M2B_SEL, 2nd_AD_Y (PB)
PR_CS
PR_INC
PR_UD
DIG GEN
COMPONENT_L
COMP_IN, SYNC_SEP, 2nd_AD_Y (PB), EVR
CMPST_PR
CDEM
CMPNT_PR
M2B SEL
PROFS
SETUP_CUT_L
2nd_AD_Y (PB), DIG GEN
CLAMP_C
2nd_AD_PB, DIG GEN
ADPR [0-9]
PR_AD
PAT=PATTERN ONLY
Ref No. 3800～3899 Series.
COMPONENT NAME
F5:V_IN (2nd_AD_PR)
15/18
CIRCUIT BOARD NO.
VEP83553B
DRAWING NO.
KR2471 (15/18)
SCM077



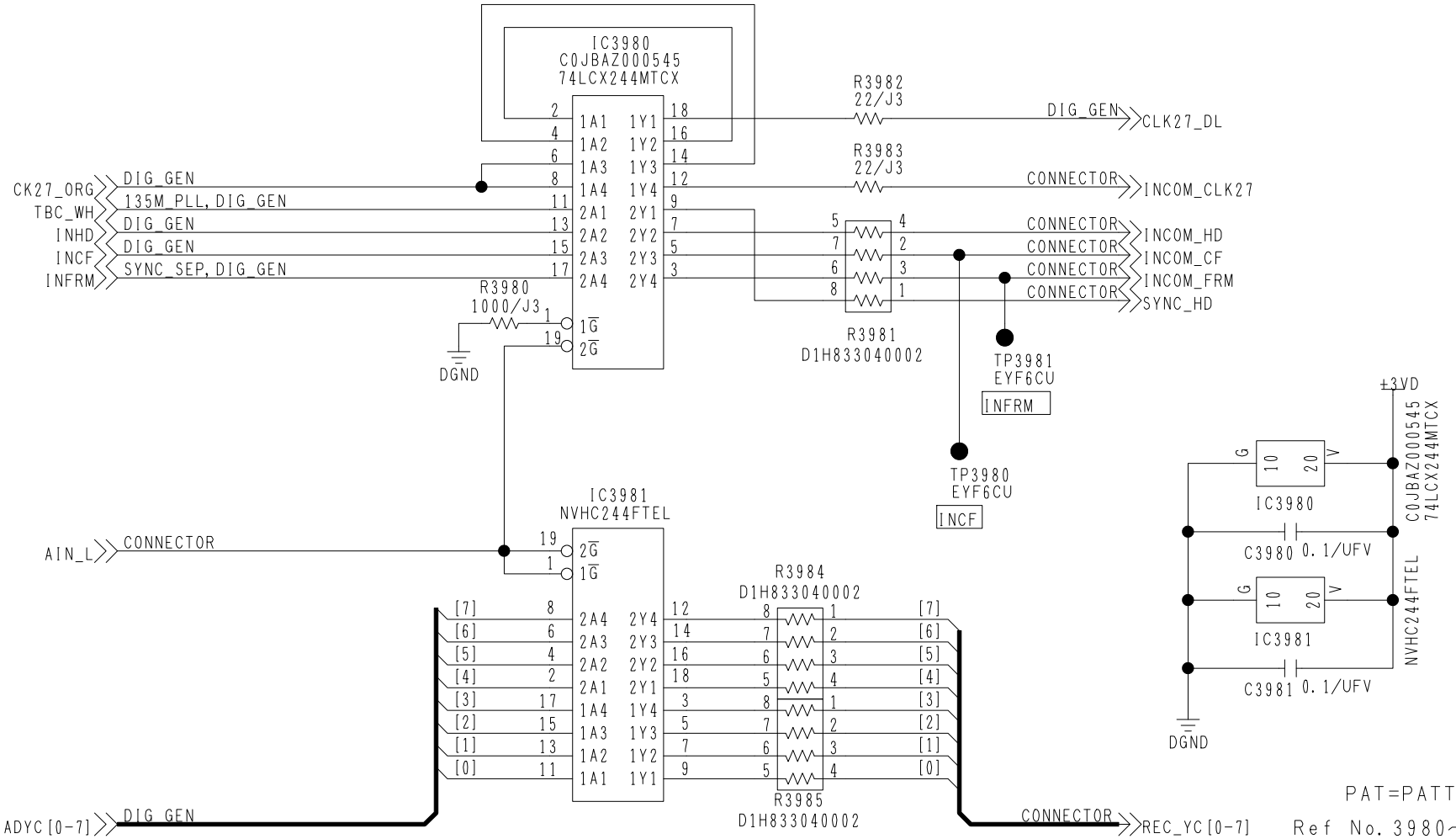
PAT=PATTERN ONLY

Ref No. 3900～3929 Series.

COMPONENT NAME	F5:V_IN (EVR)	16/18
CIRCUIT BOARD NO.		DRAWING NO.
VEP83553B		KR2471 (16/18)
		SCM078



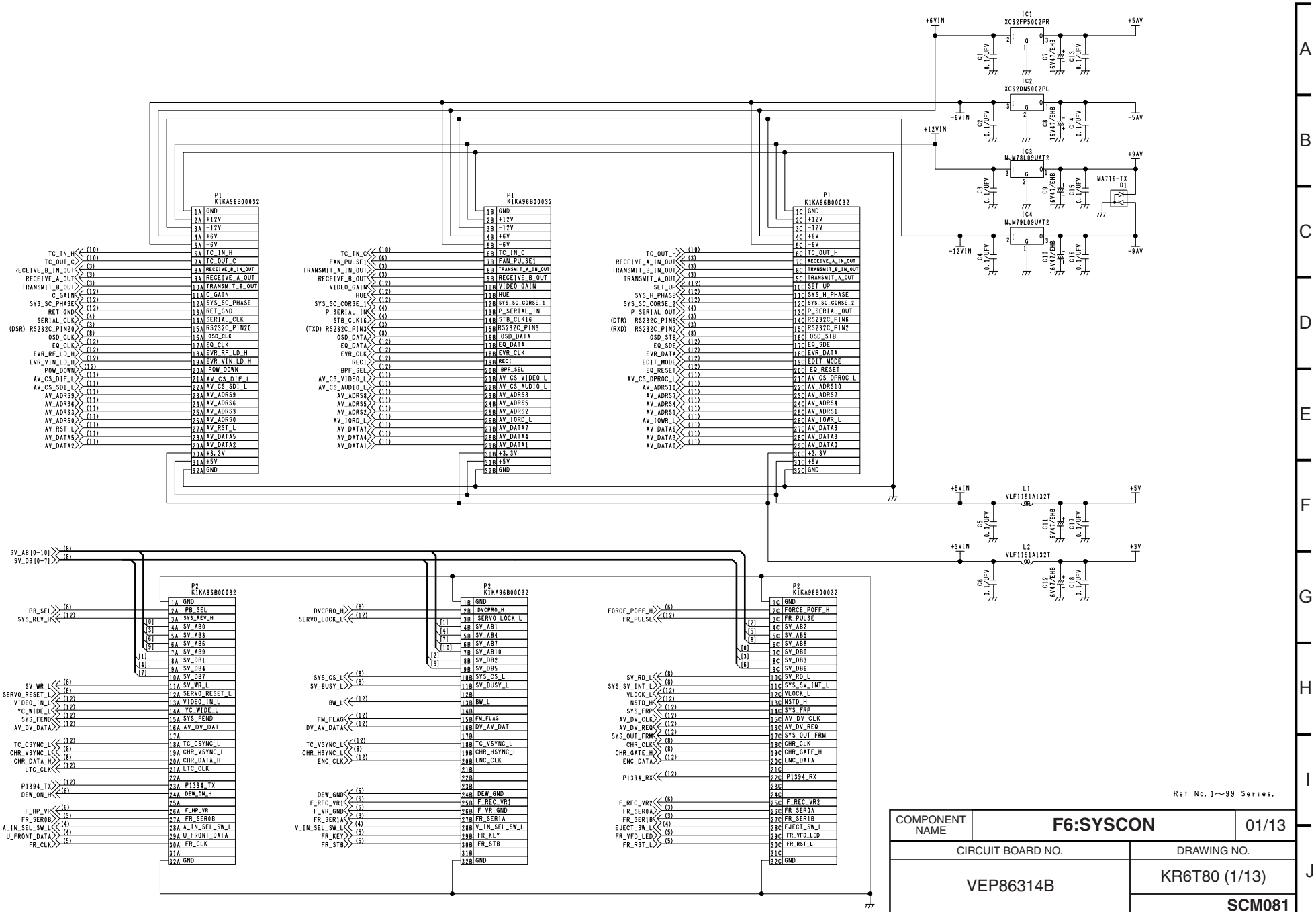
COMPONENT NAME	F5:V_IN (DIG_GEN)	17/18
CIRCUIT BOARD NO.		DRAWING NO.
VEP83553B		KR2471 (17/18)
		SCM079

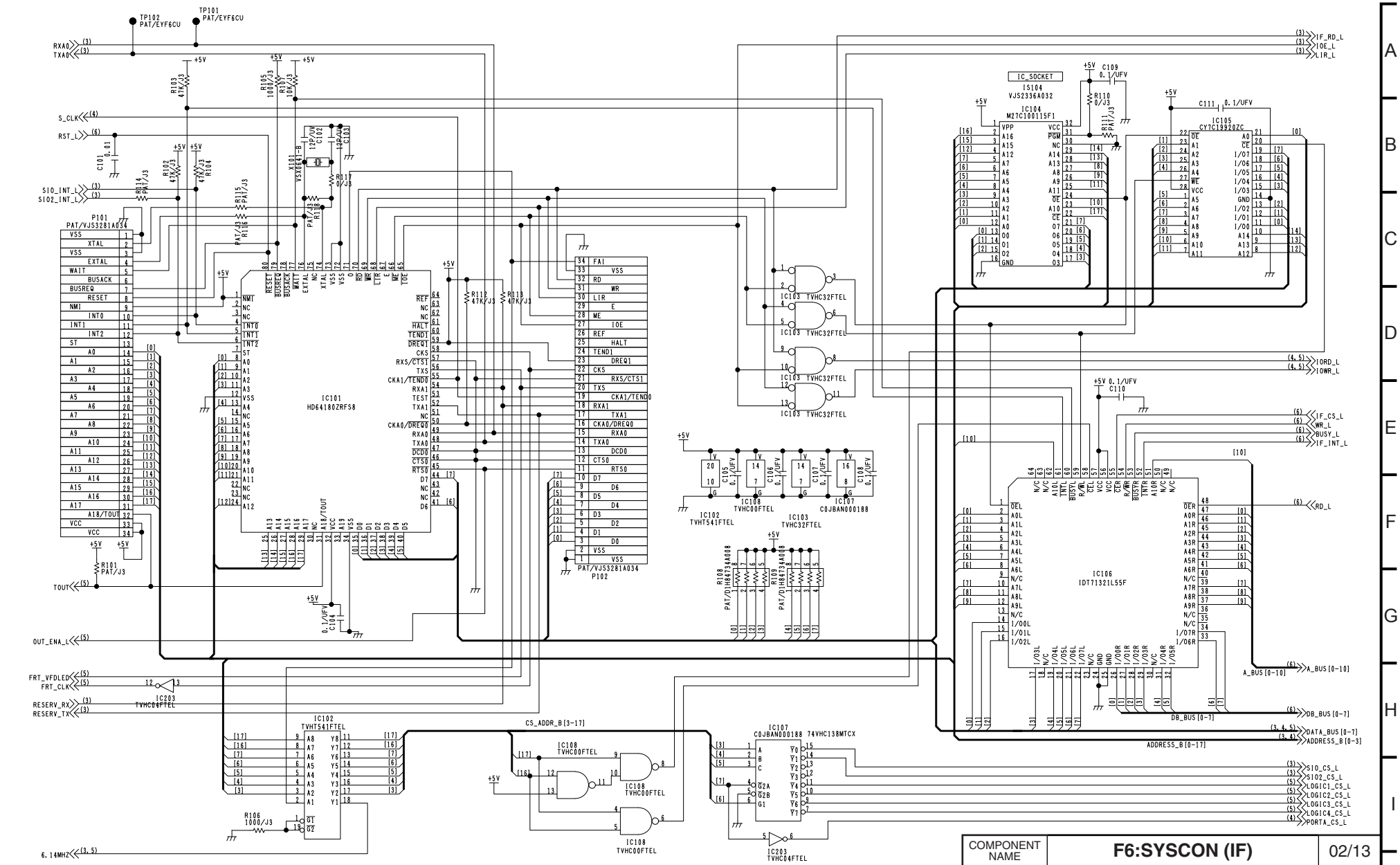


PAT=PATTERN ONLY

Ref No. 3980～3999 Series.

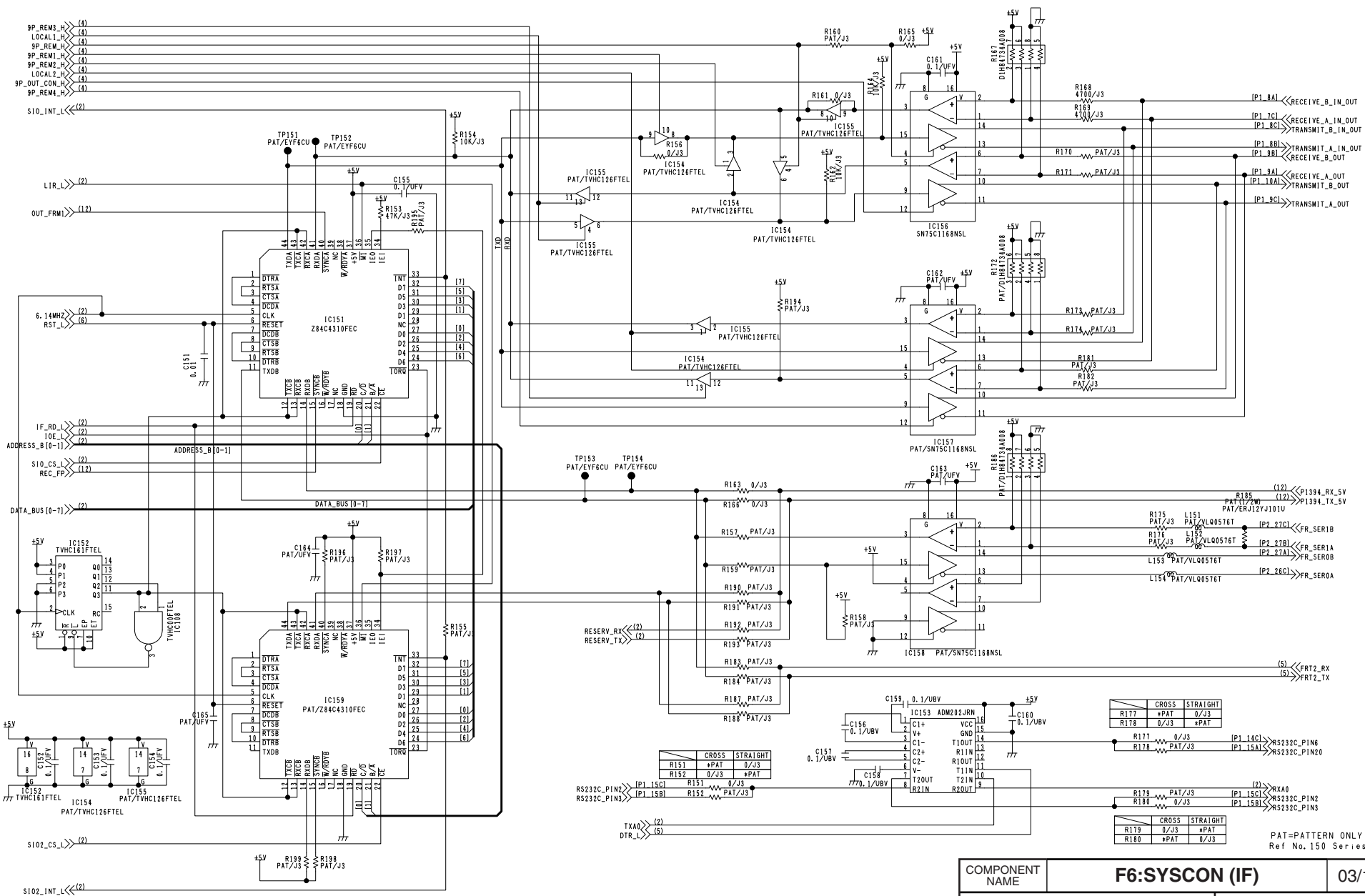
COMPONENT NAME	F5:V_IN (OUTBUFF)	18/18
CIRCUIT BOARD NO.		DRAWING NO.
VEP83553B		KR2471 (18/18)
		SCM080


+6VIN
IC1
XC62FP5002PR
+5AV
-6VIN
IC2
XC62DN5002PL
-5AV
+12VIN
IC3
NJM78L09UAT2
+9AV
MA716-TX
D1
IC4
NJM79L09UAT2
-12VIN
-9AV
P1
K1KA96B00032
P2
K1KA96B00032
+5VIN
L1
VLF115IA132T
+5V
+3VIN
L2
VLF115IA132T
+3V
SV_AB[0-10]
SV_DB[0-7]
Ref No. 1～99 Series.
COMPONENT NAME
F6:SYSCON
01/13
CIRCUIT BOARD NO.
VEP86314B
DRAWING NO.
KR6T80 (1/13)
SCM081

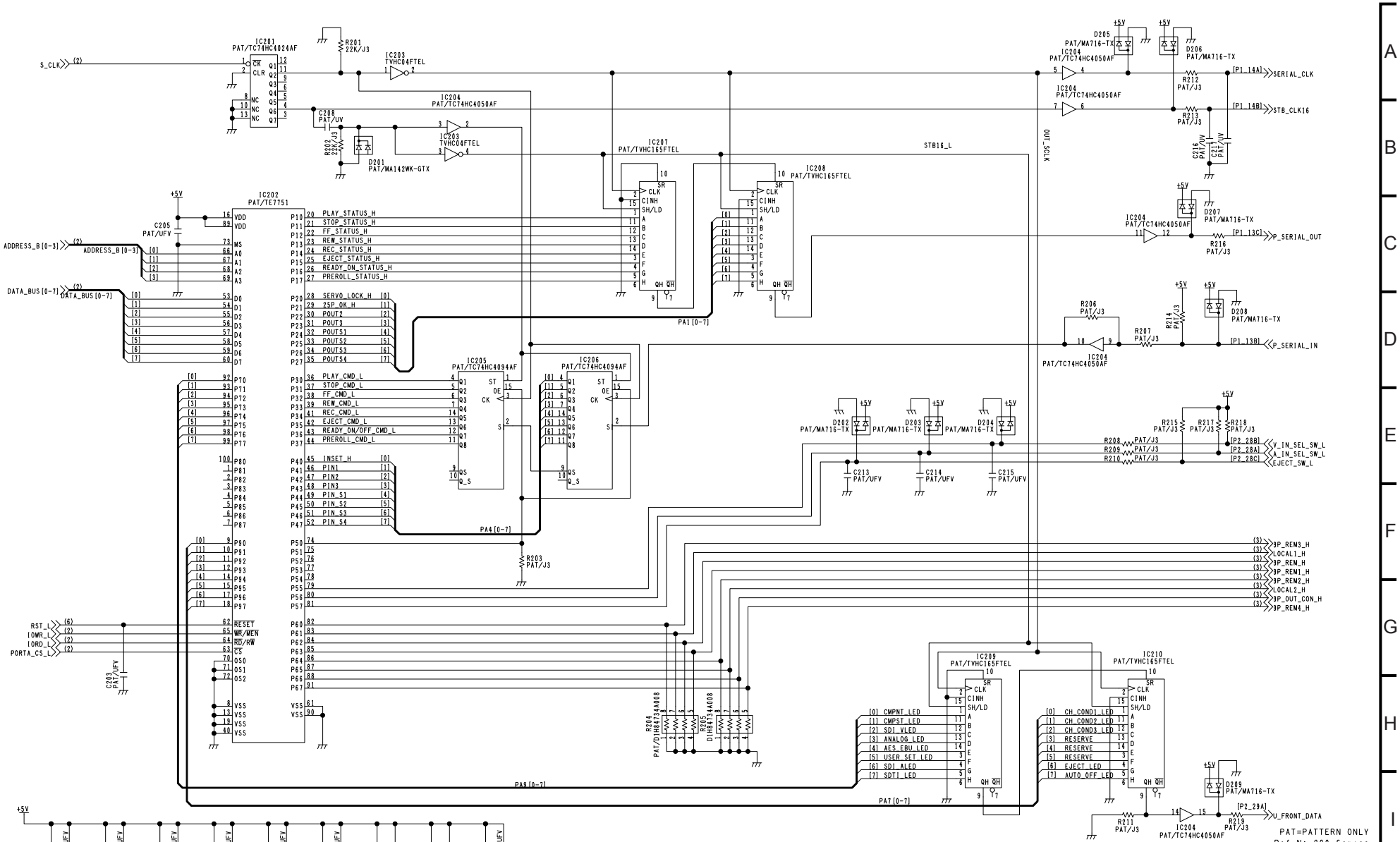


PAT=PATTERN ONLY
Ref No. 100 Series.

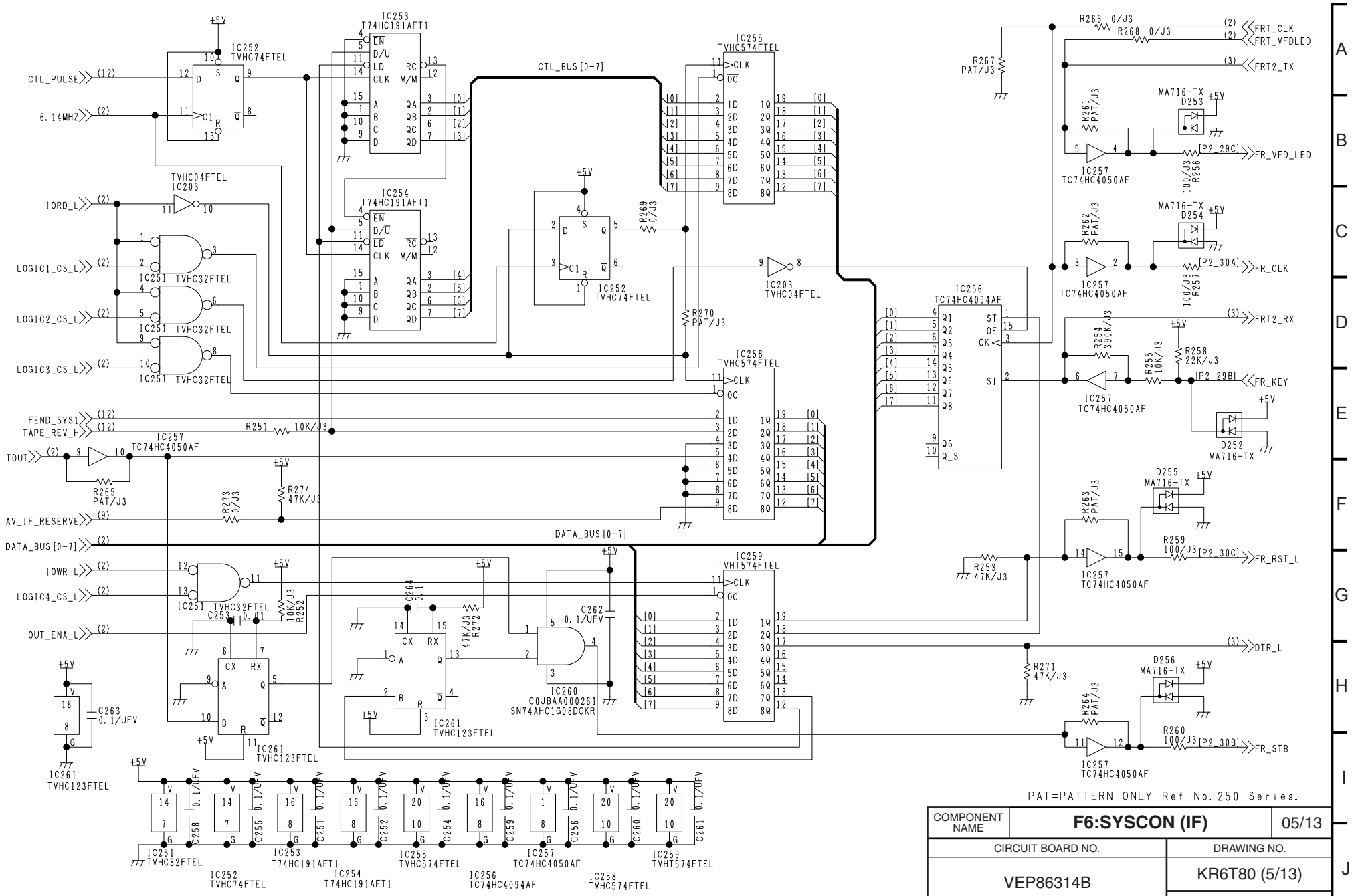
COMPONENT NAME	F6:SYSCON (IF)	02/13
CIRCUIT BOARD NO.		DRAWING NO.
VEP86314B		KR6T80 (2/13)
		SCM082

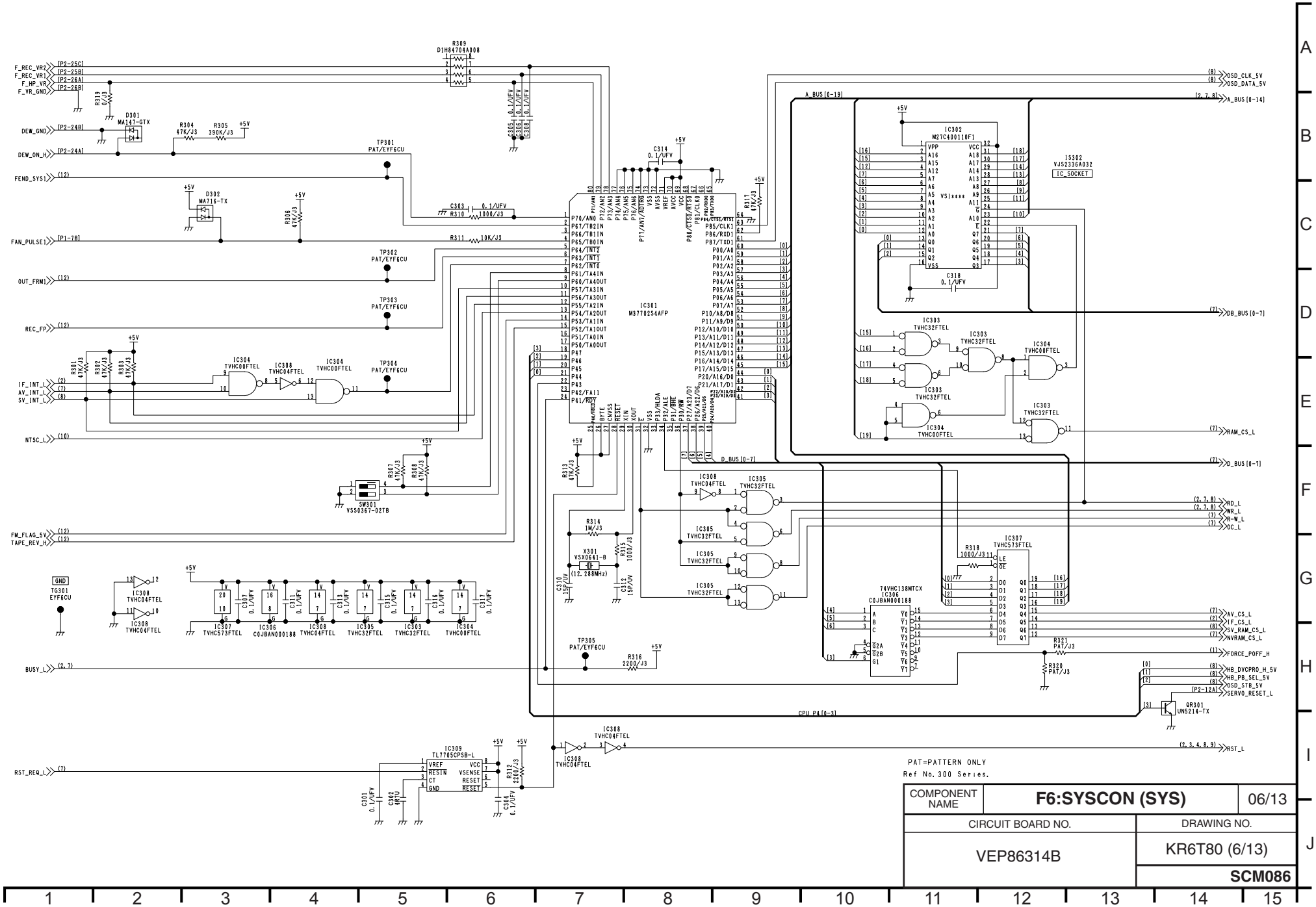


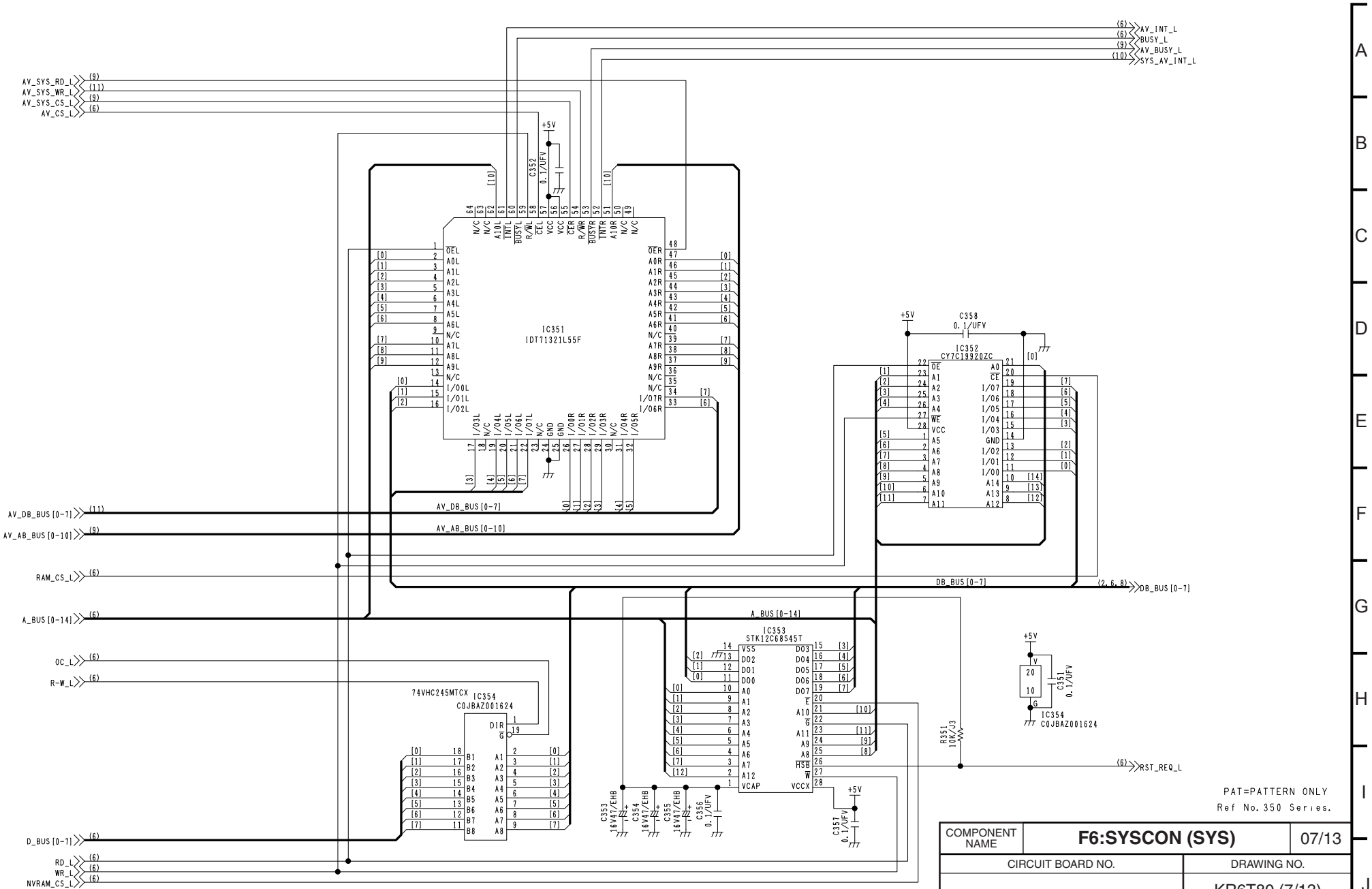
COMPONENT NAME	F6:SYSCON (IF)	03/13
CIRCUIT BOARD NO.		DRAWING NO.
VEP86314B		KR6T80 (3/13)
		SCM083



COMPONENT NAME	F6:SYSCON (IF)	04/13
CIRCUIT BOARD NO.		DRAWING NO.
VEP86314B		KR6T80 (4/13)
		SCM084

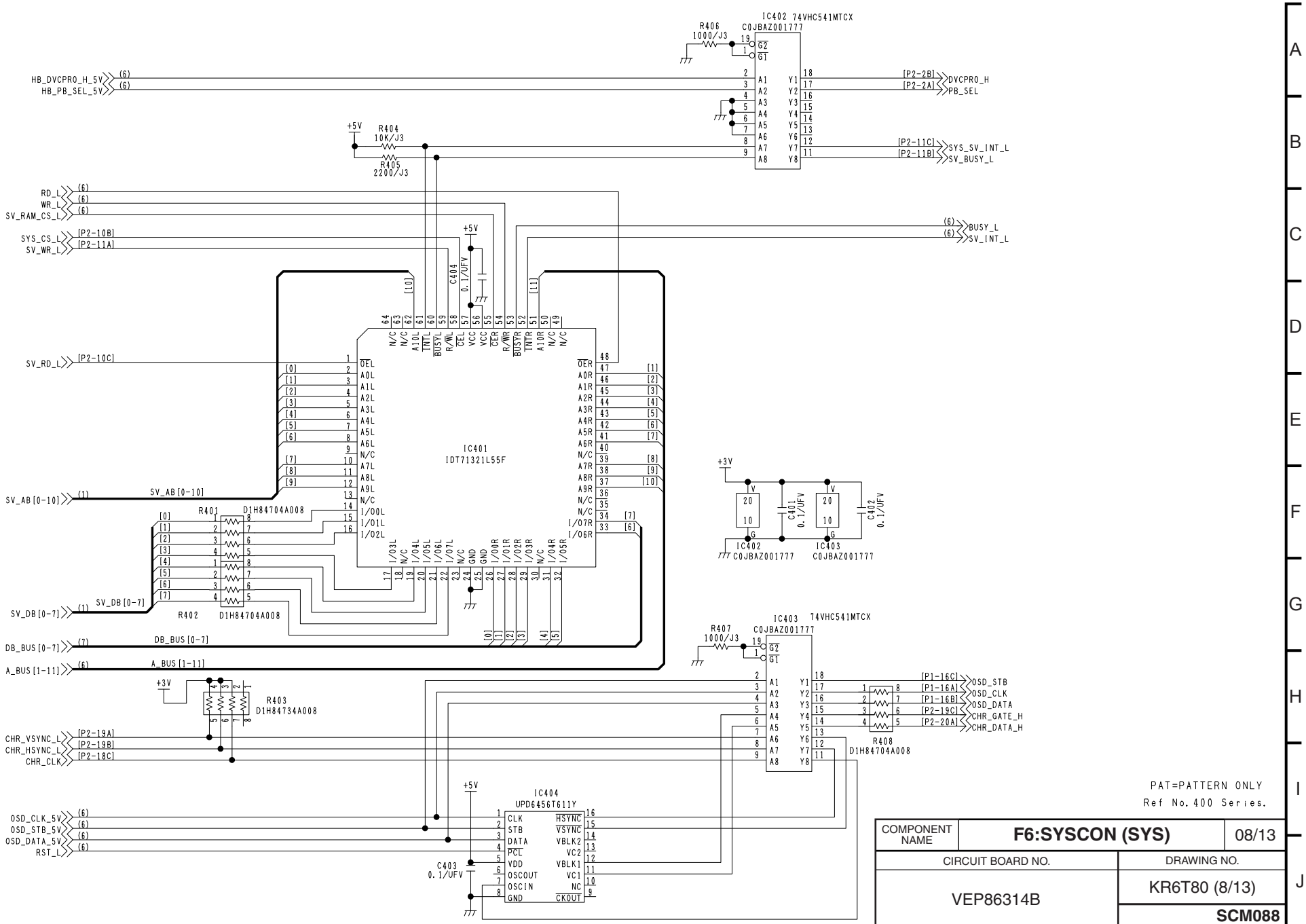

CTL_PULSE
6.14MHZ
IORD_L
LOGIC1_CS_L
LOGIC2_CS_L
LOGIC3_CS_L
FEND_SYS1
TAPE_REV_H
TOUT
AV_IF_RESERVE
DATA_BUS[0-7]
IOWR_L
LOGIC4_CS_L
OUT_ENA_L
CTL_BUS[0-7]
IC252 TVHC74FTEL
IC253 T74HC191AFT1
IC254 T74HC191AFT1
IC255 TVHC574FTEL
IC203 TVHC04FTEL
IC251 TVHC32FTEL
IC256 TC74HC4094AF
IC258 TVHC574FTEL
IC257 TC74HC4050AF
IC259 TVHT574FTEL
IC260 C0JBAA000261 SN74AHC1G08DCKR
IC261 TVHC123FTEL
R251 10K/J3
R252 10K/J3
R253 47K/J3
R254 390K/J3
R255 10K/J3
R256 100/J3
R257 100/J3
R258 22K/J3
R259 100/J3
R260 100/J3
R261 PAT/J3
R262 PAT/J3
R263 PAT/J3
R264 PAT/J3
R265 PAT/J3
R266 0/J3
R267 PAT/J3
R268 0/J3
R269 0/J3
R270 PAT/J3
R271 47K/J3
R272 47K/J3
R273 0/J3
R274 47K/J3
C252 0.01
C253 0.01
C262 0.1/UFV
C263 0.1/UFV
C264 0.1
MA716-TX D252
MA716-TX D253
MA716-TX D254
MA716-TX D255
MA716-TX D256
FRT_CLK
FRT_VFDLED
FRT2_TX
FR_VFD_LED
FR_CLK
FRT2_RX
FR_KEY
FR_RST_L
DTR_L
FR_STB
[P2_29C]
[P2_30A]
[P2_29B]
[P2_30C]
[P2_30B]
PAT=PATTERN ONLY Ref No. 250 Series.
COMPONENT NAME
F6:SYSCON (IF)
05/13
CIRCUIT BOARD NO.
VEP86314B
DRAWING NO.
KR6T80 (5/13)
SCM085

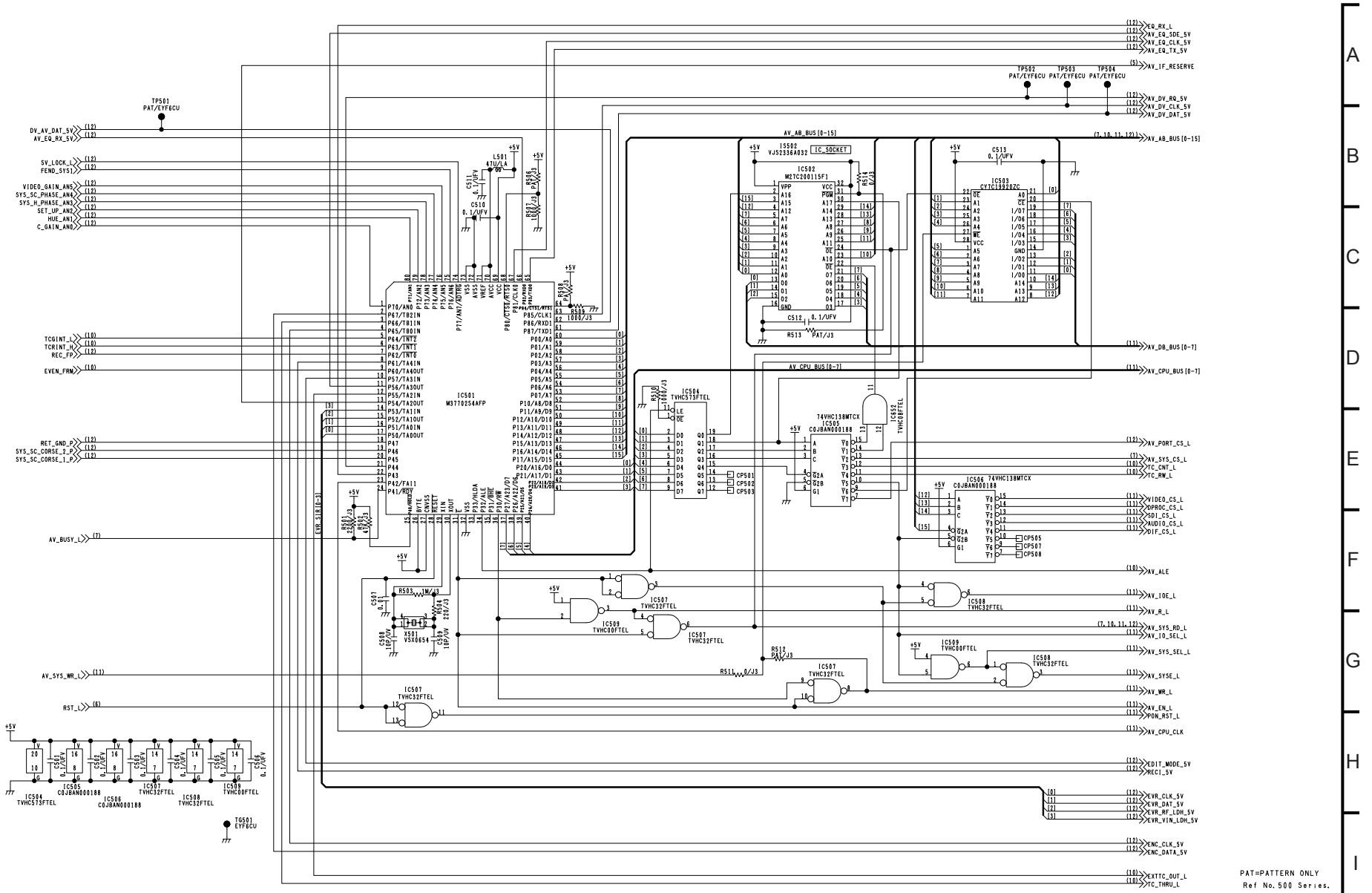

F_REC_VR2 [P2-25C]
F_REC_VR1 [P2-25B]
F_HP_VR [P2-26A]
F_VR_GND [P2-26B]
DEW_GND [P2-24B]
DEW_ON_H [P2-24A]
FEND_SYS1 (12)
FAN_PULSE1 [P1-7B]
OUT_FRM1 (12)
REC_FP (12)
IF_INT_L (2)
AV_INT_L (7)
SV_INT_L (8)
NTSC_L (10)
FW_FLAG_5V (12)
TAPE_REV_H (12)
BUSY_L (2, 7)
RST_REQ_L (7)
R309 DIH84704A008
D301 MA147-GTX
D302 MA716-TX
TP301 PAT/EYF6CU
TP302 PAT/EYF6CU
TP303 PAT/EYF6CU
TP304 PAT/EYF6CU
TP305 PAT/EYF6CU
SW301 VSS0367-02TB
X301 VSX0641-B (12.288MHz)
IC301 M37702S4AFP
IC302 M27C400110F1
IS302 VJS2336A032 IC_SOCKET
IC303 TVHC32FTEL
IC304 TVHC00FTEL
IC305 TVHC32FTEL
IC306 T4VHC138MTCX C0JBAN000188
IC307 TVHC573FTEL
IC308 TVHC04FTEL
IC309 TL7705CPSB-L
OSD_CLK_5V (8)
OSD_DATA_5V (8)
A_BUS [0-14] (2, 7, 8)
DB_BUS [0-7] (7)
RAM_CS_L (7)
D_BUS [0-7] (7)
RD_L (2, 7, 8)
WR_L (2, 7, 8)
R-W_L (7)
OC_L (7)
AV_CS_L (7)
IF_CS_L (2)
SV_RAM_CS_L (8)
NVRAM_CS_L (7)
FORCE_POFF_H (1)
HB_DVCPRO_H_5V (8)
HB_PB_SEL_5V (8)
OSD_STB_5V (8)
SERVO_RESET_L (8)
QR301 UN5214-TX
RST_L (2, 3, 4, 8, 9)
CPU P4 [0-3]
PAT=PATTERN ONLY
Ref No. 300 Series.
COMPONENT NAME
F6:SYSCON (SYS)
06/13
CIRCUIT BOARD NO.
VEP86314B
DRAWING NO.
KR6T80 (6/13)
SCM086



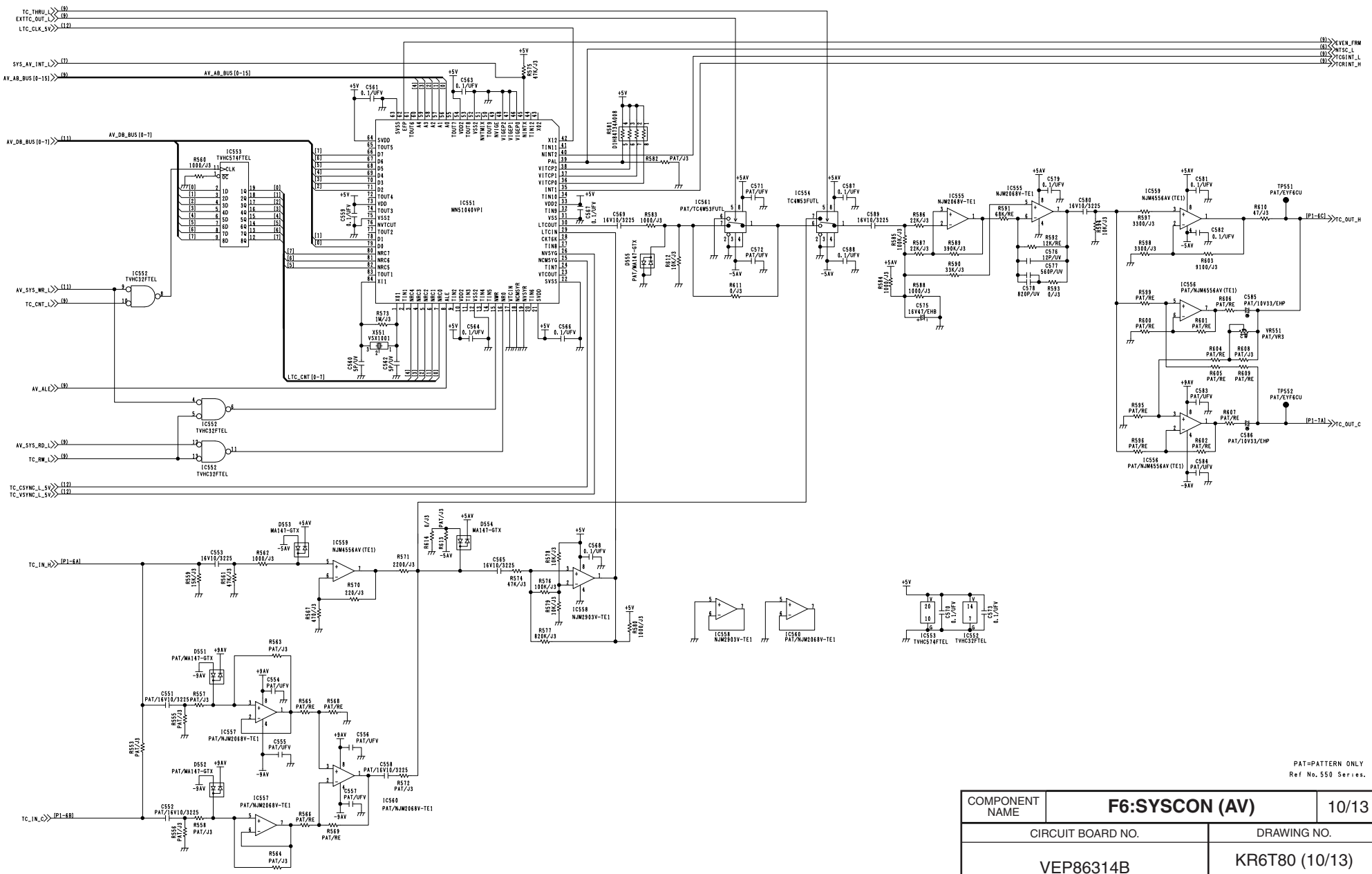
PAT=PATTERN ONLY
Ref No. 350 Series.

COMPONENT NAME	F6:SYSCON (SYS)	07/13
CIRCUIT BOARD NO.		DRAWING NO.
VEP86314B		KR6T80 (7/13)
		SCM087

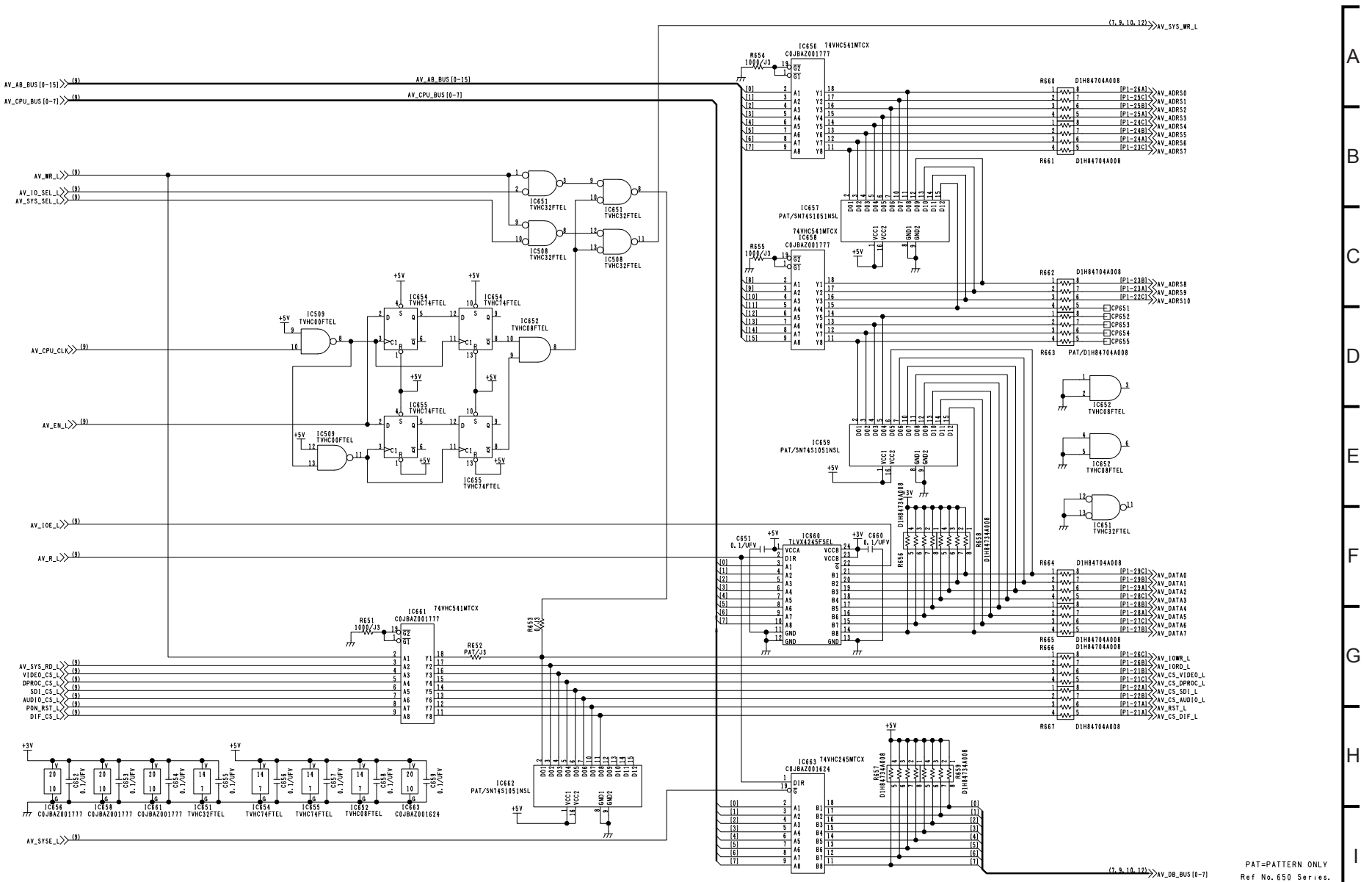

IC402 74VHC541MTCX
C0JBAZ001777
R406
1000/J3
HB_DVCPRO_H_5V
HB_PB_SEL_5V
DVCPRO_H
PB_SEL
R404
10K/J3
R405
2200/J3
+5V
SYS_SV_INT_L
SV_BUSY_L
RD_L
WR_L
SV_RAM_CS_L
SYS_CS_L
SV_WR_L
BUSY_L
SV_INT_L
C404
0.1/UFV
IC401
IDT71321L55F
SV_RD_L
SV_AB[0-10]
SV_DB[0-7]
DB_BUS[0-7]
A_BUS[1-11]
R401
D1H84704A008
R402
D1H84704A008
IC402
C0JBAZ001777
IC403
C0JBAZ001777
C401
0.1/UFV
C402
0.1/UFV
+3V
IC403 74VHC541MTCX
C0JBAZ001777
R407
1000/J3
R408
D1H84704A008
OSD_STB
OSD_CLK
OSD_DATA
CHR_GATE_H
CHR_DATA_H
R403
D1H84734A008
CHR_VSYNC_L
CHR_HSYNC_L
CHR_CLK
IC404
UPD6456T611Y
C403
0.1/UFV
OSD_CLK_5V
OSD_STB_5V
OSD_DATA_5V
RST_L
PAT=PATTERN ONLY
Ref No. 400 Series.
COMPONENT NAME
F6:SYSCON (SYS)
08/13
CIRCUIT BOARD NO.
VEP86314B
DRAWING NO.
KR6T80 (8/13)
SCM088



COMPONENT NAME	F6:SYSCON (AV)	09/13
CIRCUIT BOARD NO.		DRAWING NO.
VEP86314B		KR6T80 (9/13)
		SCM089

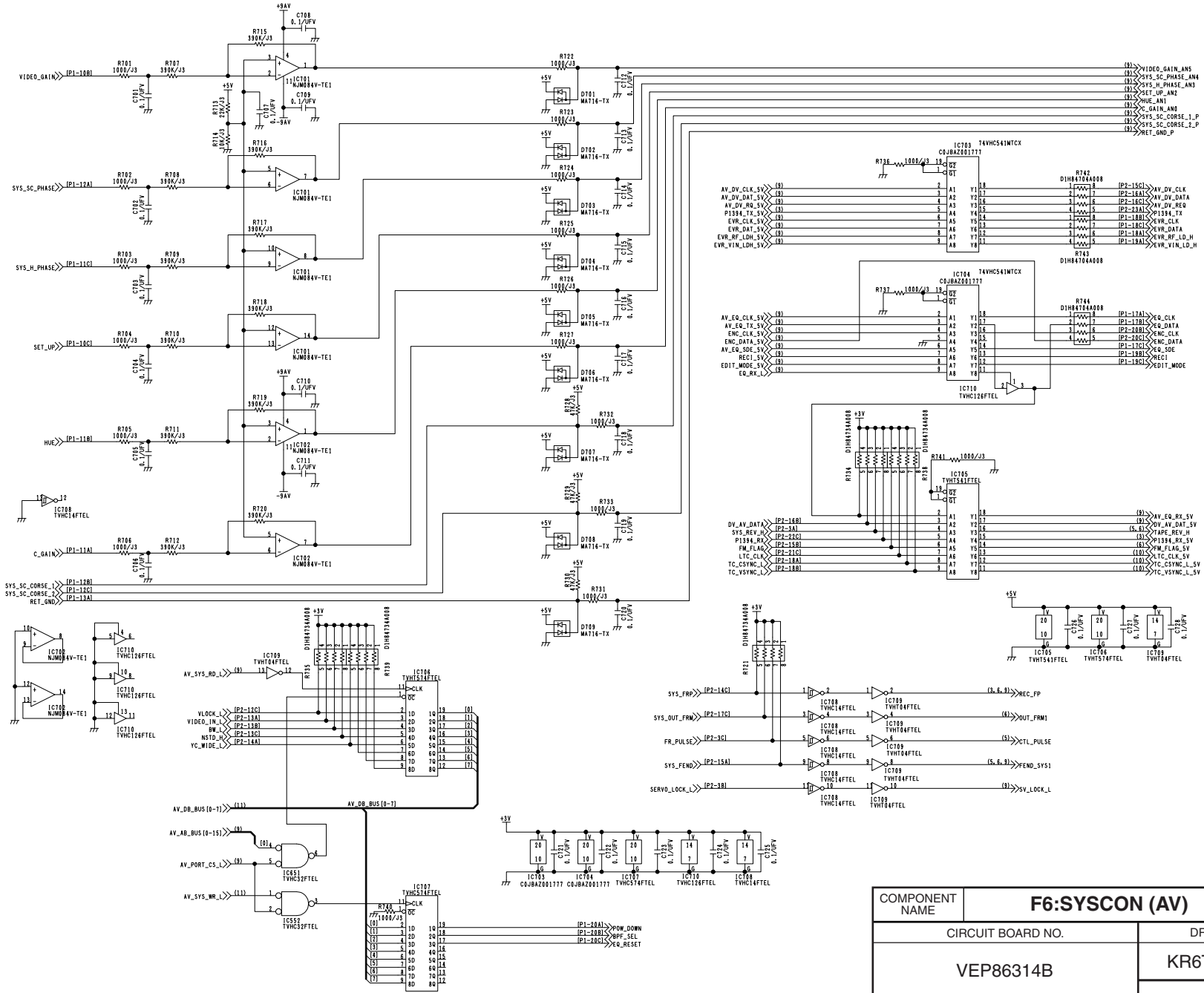


COMPONENT NAME	F6:SYSCON (AV)	10/13
CIRCUIT BOARD NO.		DRAWING NO.
VEP86314B		KR6T80 (10/13)
		SCM090



PAT=PATTERN ONLY
Ref No.650 Series.

COMPONENT NAME	F6:SYSCON (AV)	11/13
CIRCUIT BOARD NO.		DRAWING NO.
VEP86314B		KR6T80 (11/13)
		SCM091



Ref No. 700 Series.

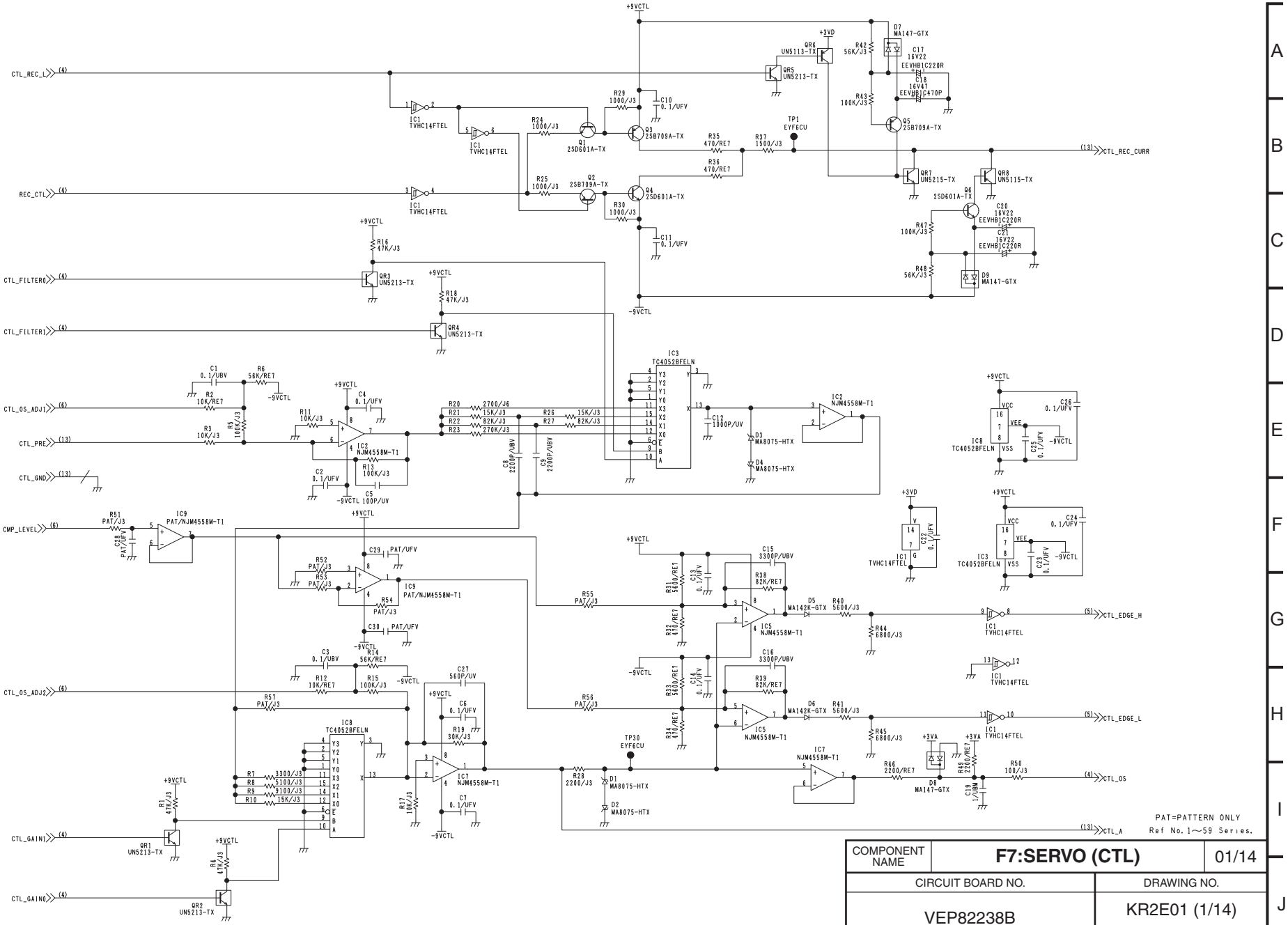
COMPONENT NAME	F6:SYSCON (AV)	12/13
CIRCUIT BOARD NO.		DRAWING NO.
VEP86314B		KR6T80 (12/13)
		SCM092

	AJ-D455E		
IC104 (M27C100115F1)	VSI3558A		
IC302 (M27C400110F1)	VSI3562A		
IC502 (M27C200115F)	VSI3564B		

COMPONENT NAME	SYSCON	13/13
CIRCUIT BOARD NO.		DRAWING NO.
VEP85314B		KR6T80 (13/13)
		SCM093

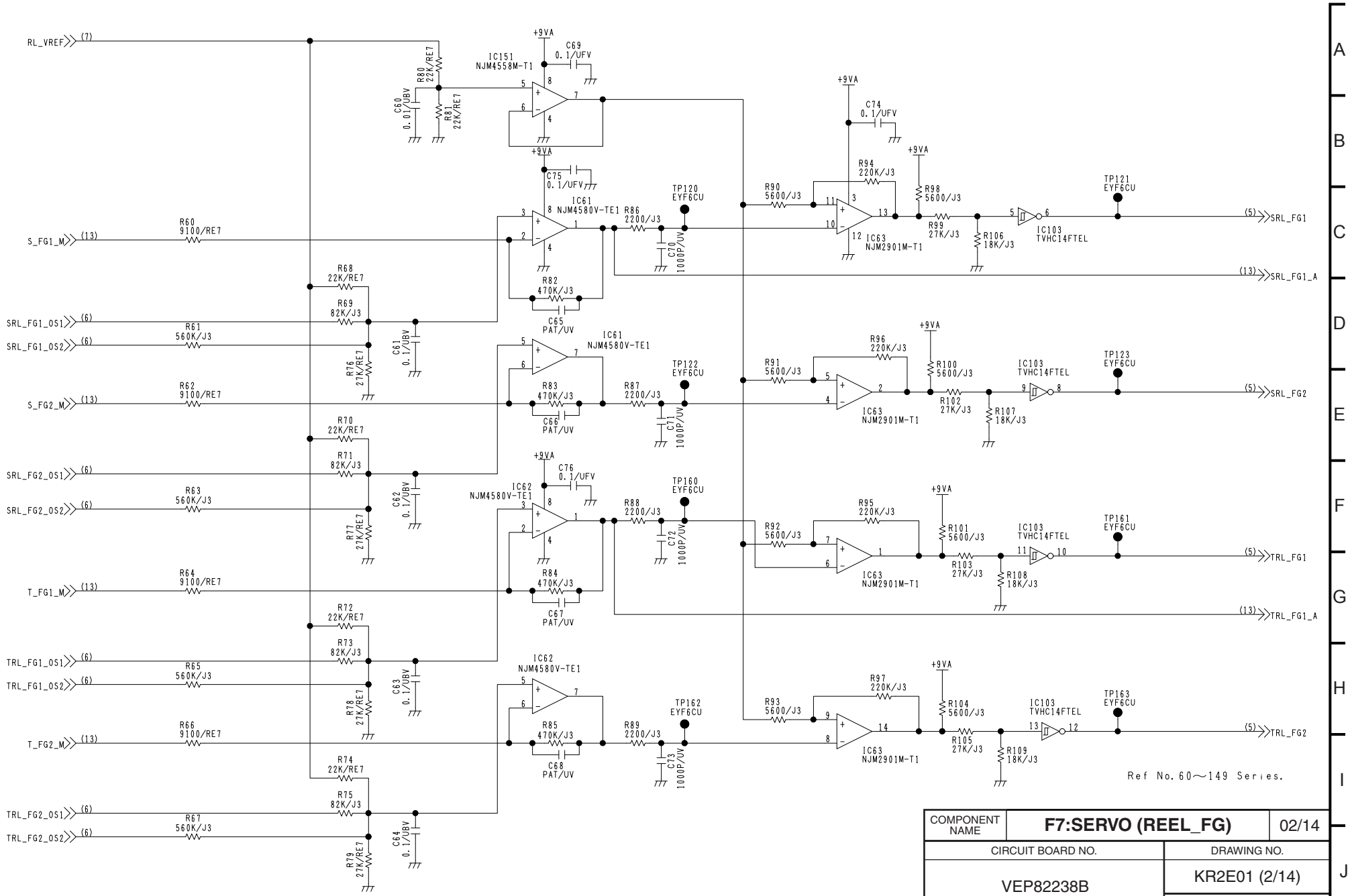
A B C D E F G H I J

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

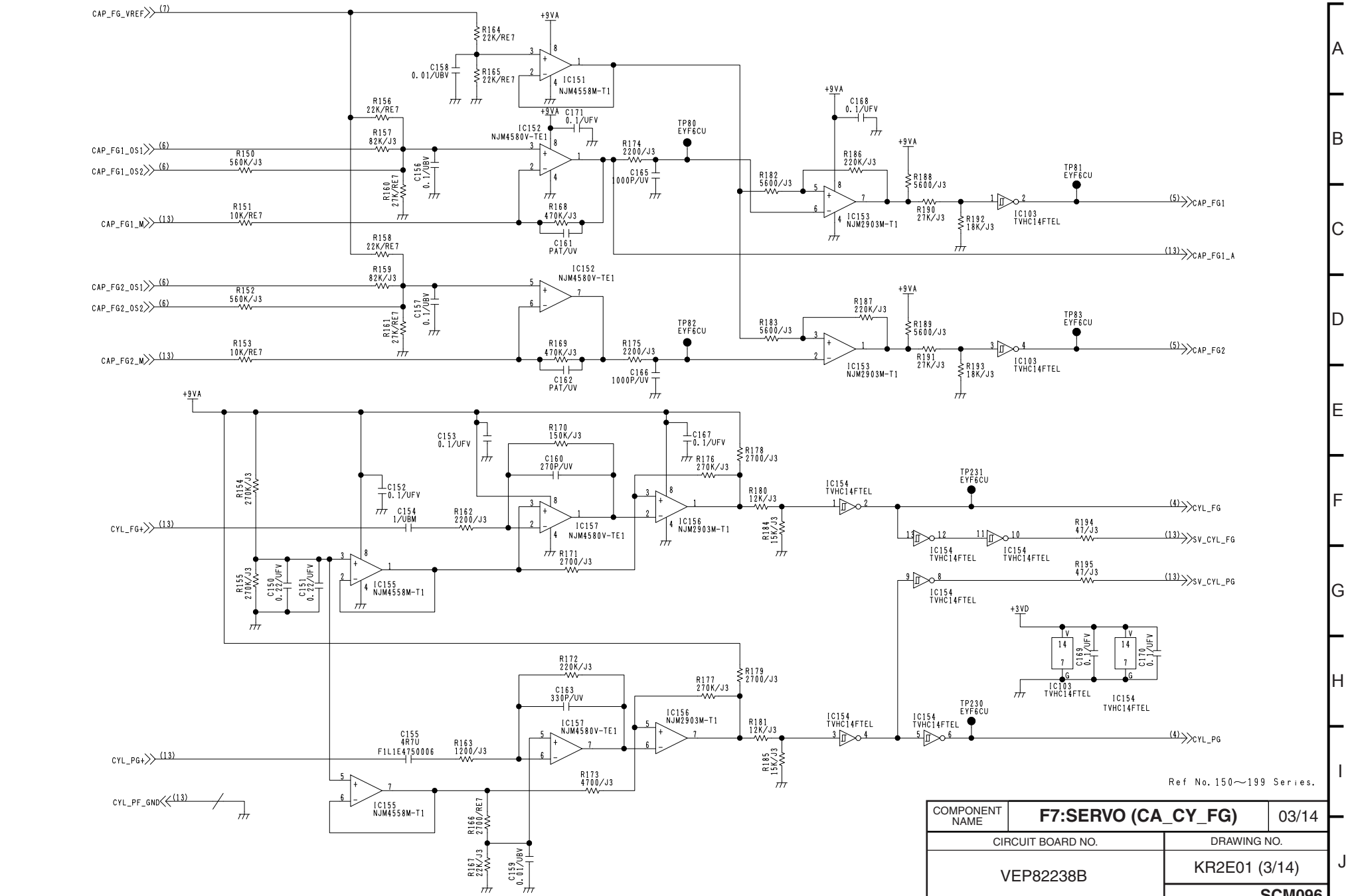


PAT=PATTERN ONLY
Ref No. 1～59 Series.

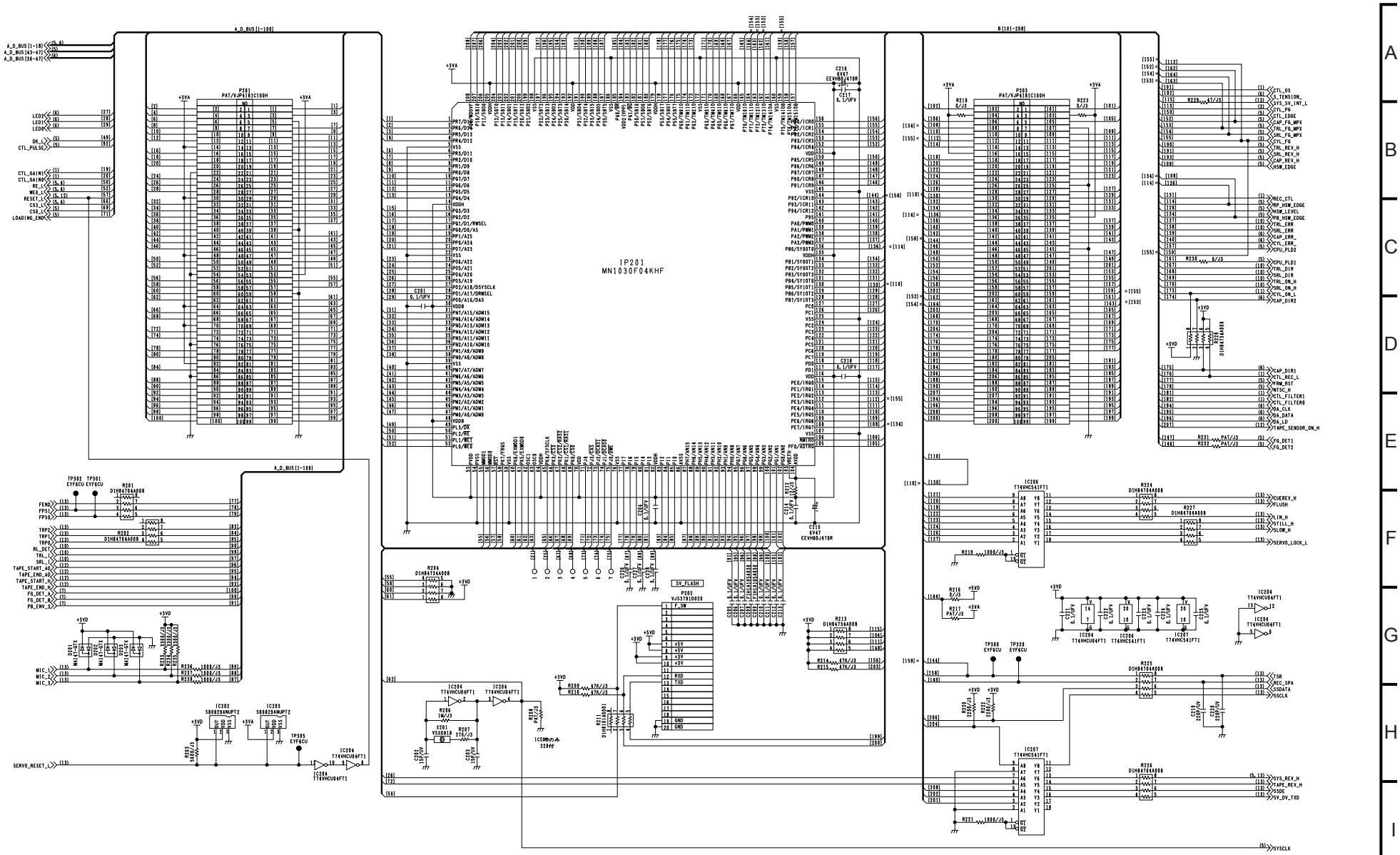
COMPONENT NAME	F7:SERVO (CTL)	01/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP82238B		KR2E01 (1/14)
		SCM094



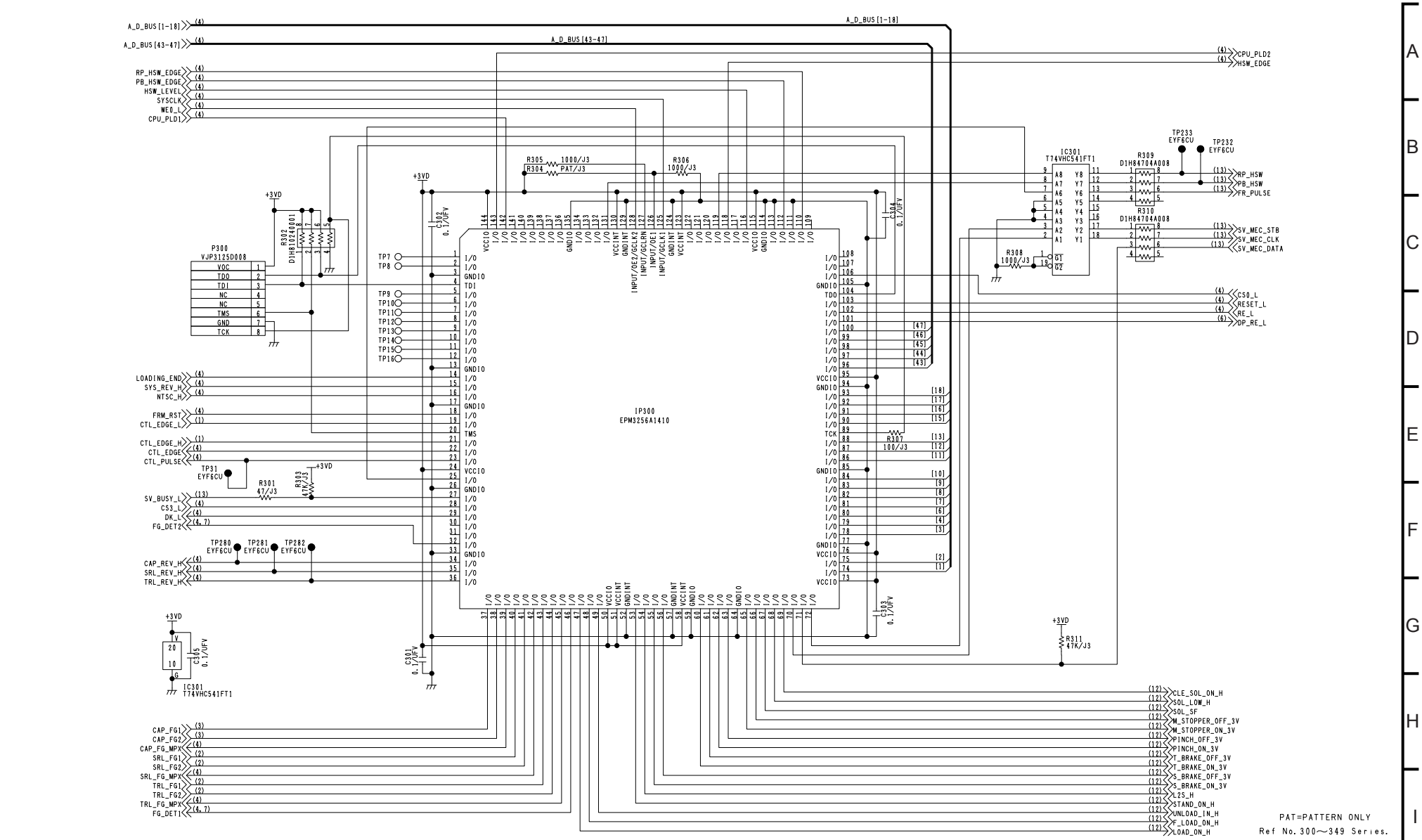
COMPONENT NAME	F7:SERVO (REEL_FG)	02/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP82238B		KR2E01 (2/14)
		SCM095



COMPONENT NAME	F7:SERVO (CA_CY_FG)	03/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82238B	KR2E01 (3/14)	
	SCM096	

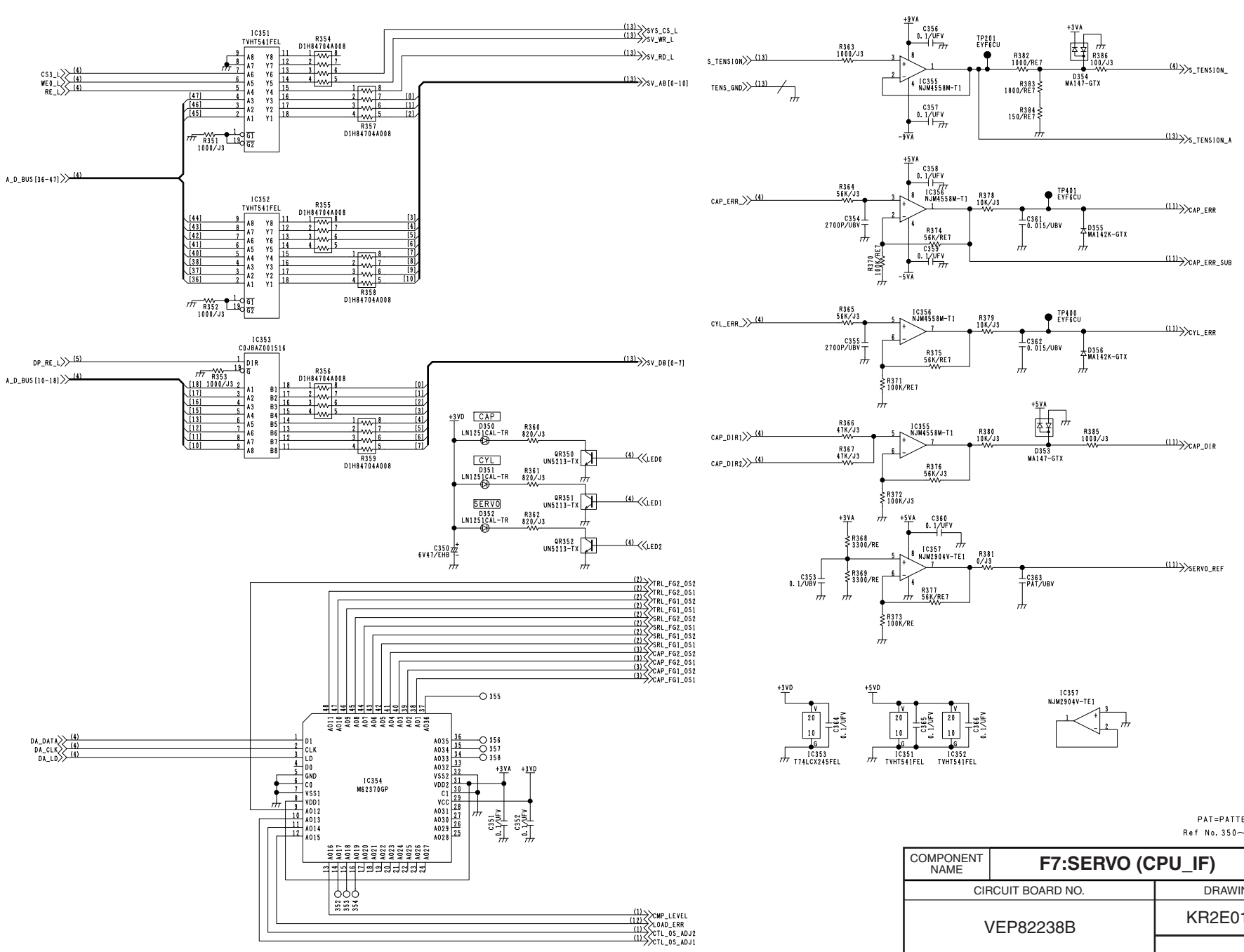


COMPONENT NAME	**F7:SERVO (CPU)**	04/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP82238B		KR2E01 (4/14)
		SCM097



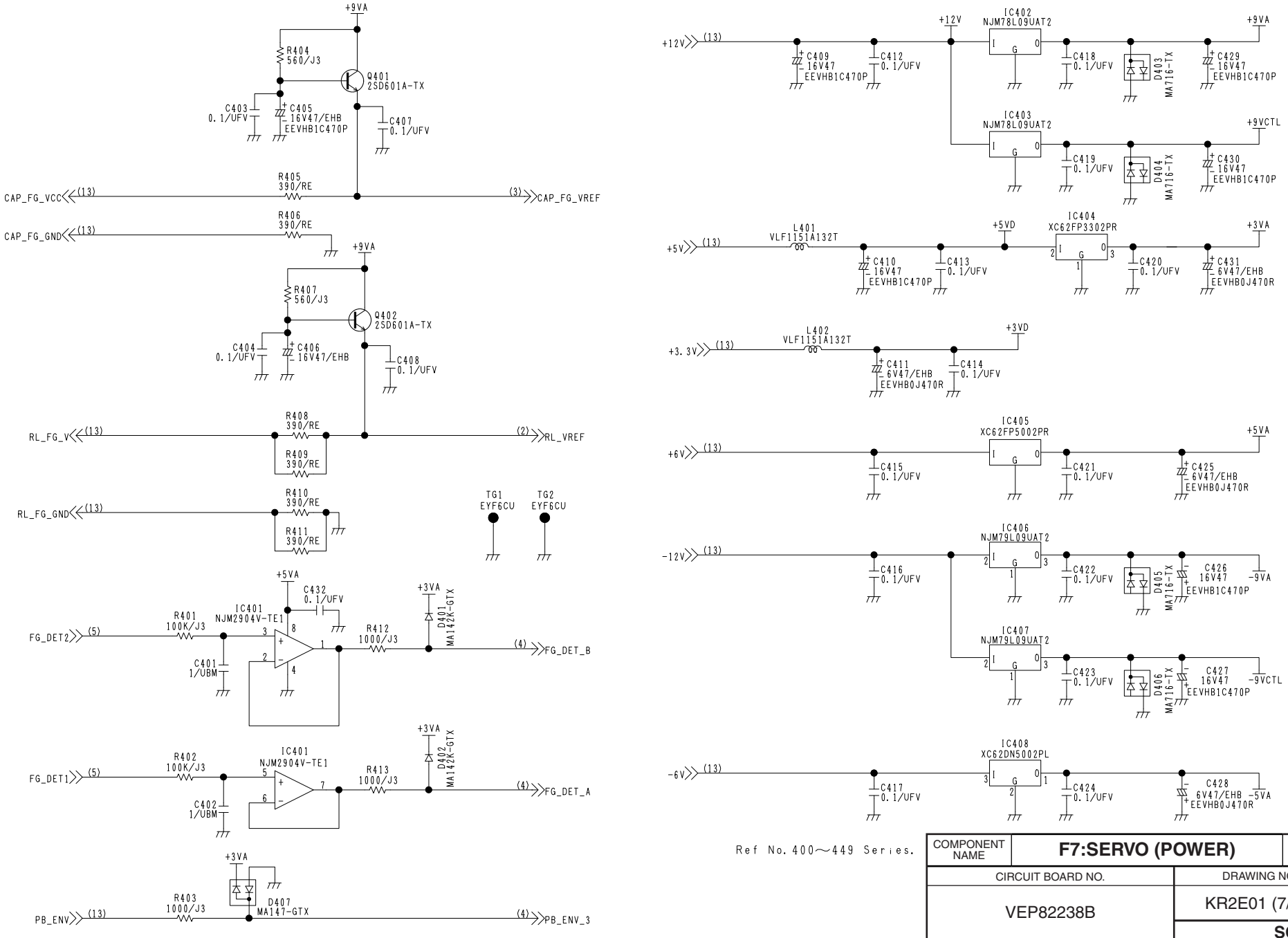
PAT=PATTERN ONLY
Ref No. 300～349 Series.

COMPONENT NAME	F7:SERVO (PLD)	05/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP82238B		KR2E01 (5/14)
		SCM098



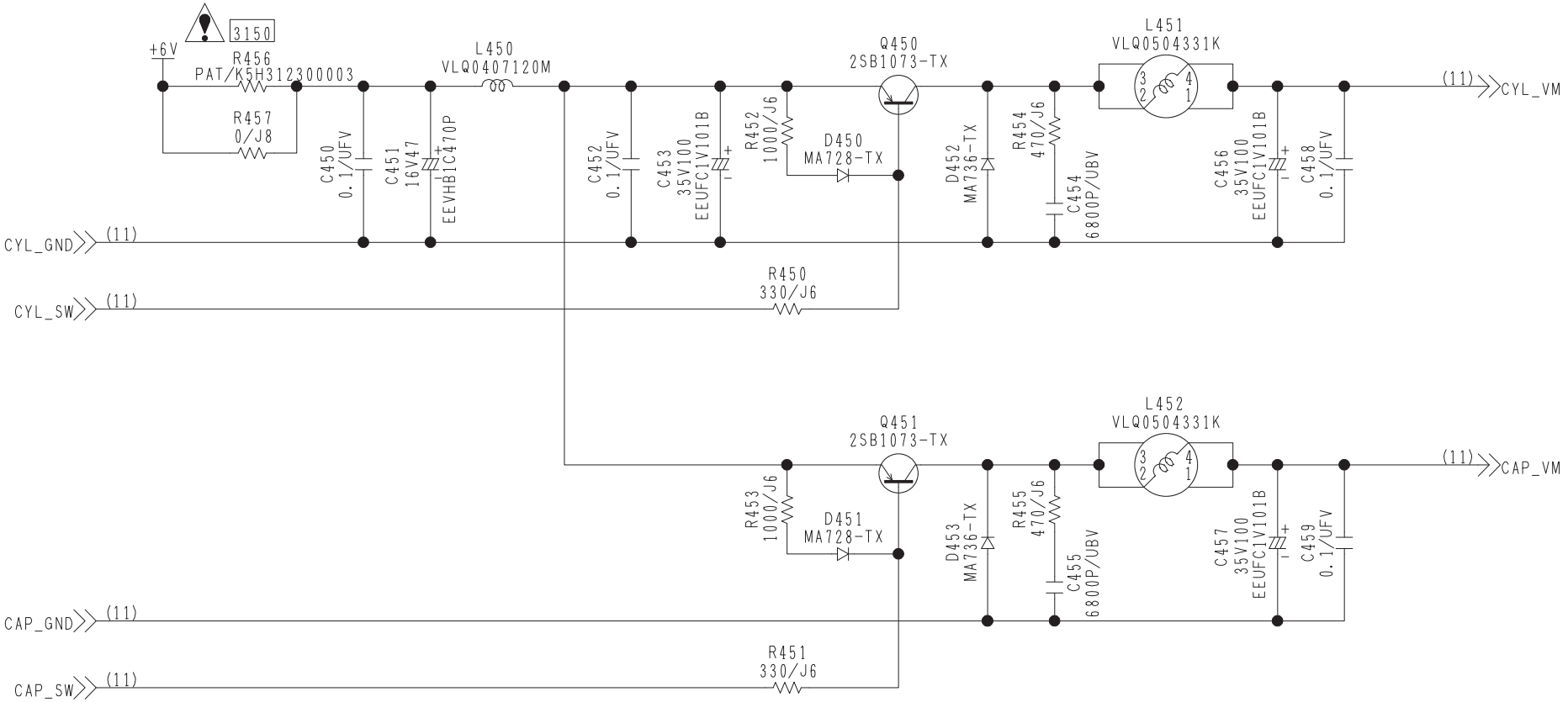
PAT=PATTERN ONLY
Ref No. 350～399 Series.

COMPONENT NAME	F7:SERVO (CPU_IF)	06/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP82238B		KR2E01 (6/14)
		SCM099



Ref No. 400～449 Series.

COMPONENT NAME	F7:SERVO (POWER)	07/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP82238B		KR2E01 (7/14)
		SCM100



PAT=PATTERN ONLY

Ref No. 450 Series.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

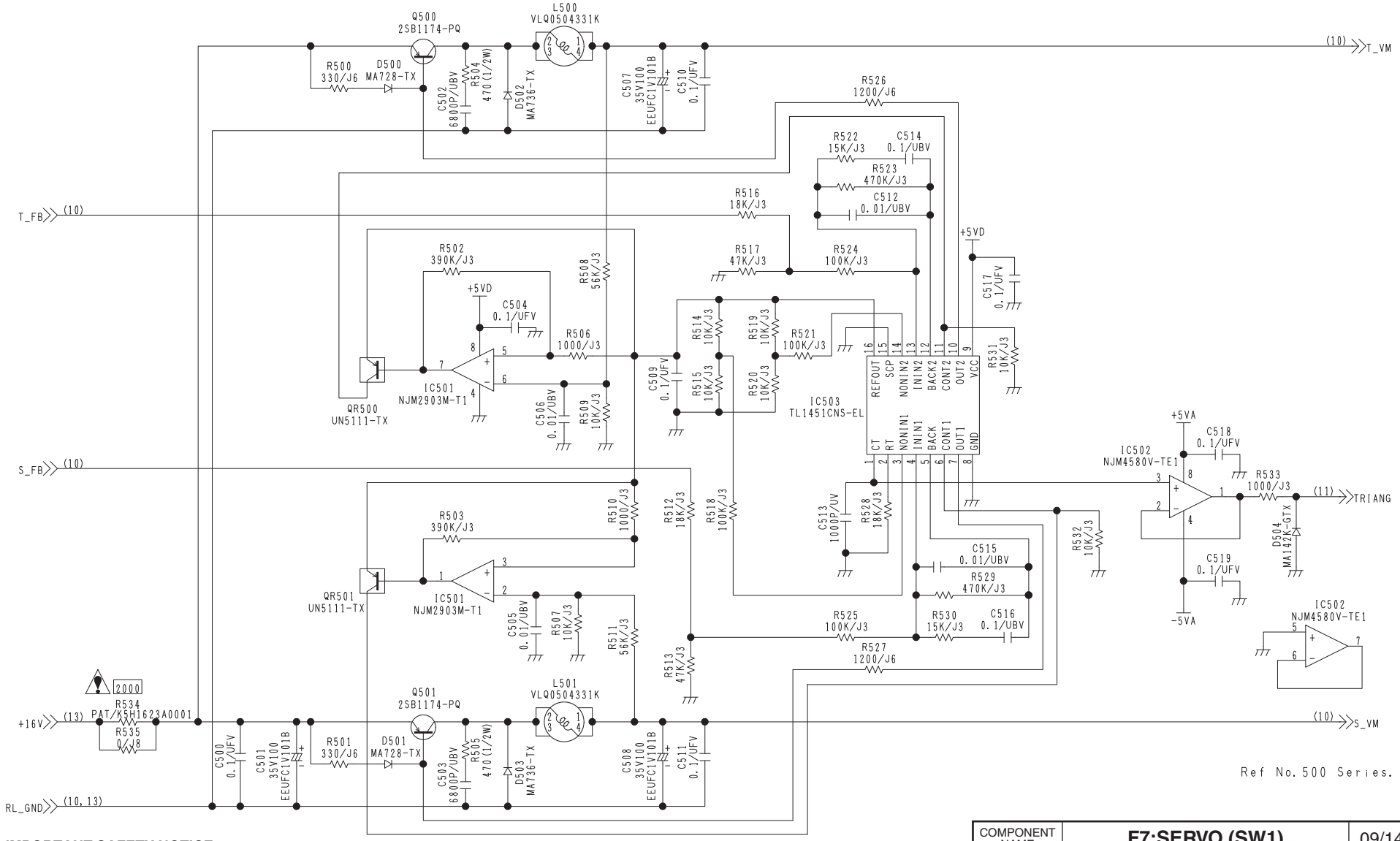
⚠ 警告

⚠ の部品は、安全上重要な部品です。
交換するときは、安全及び性能維持のため、必ず指定の部品をご使用ください。

COMPONENT NAME	F7:SERVO (SW2)	08/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP82238B		KR2E01 (8/14)
		SCM101

A B C D E F G H I J

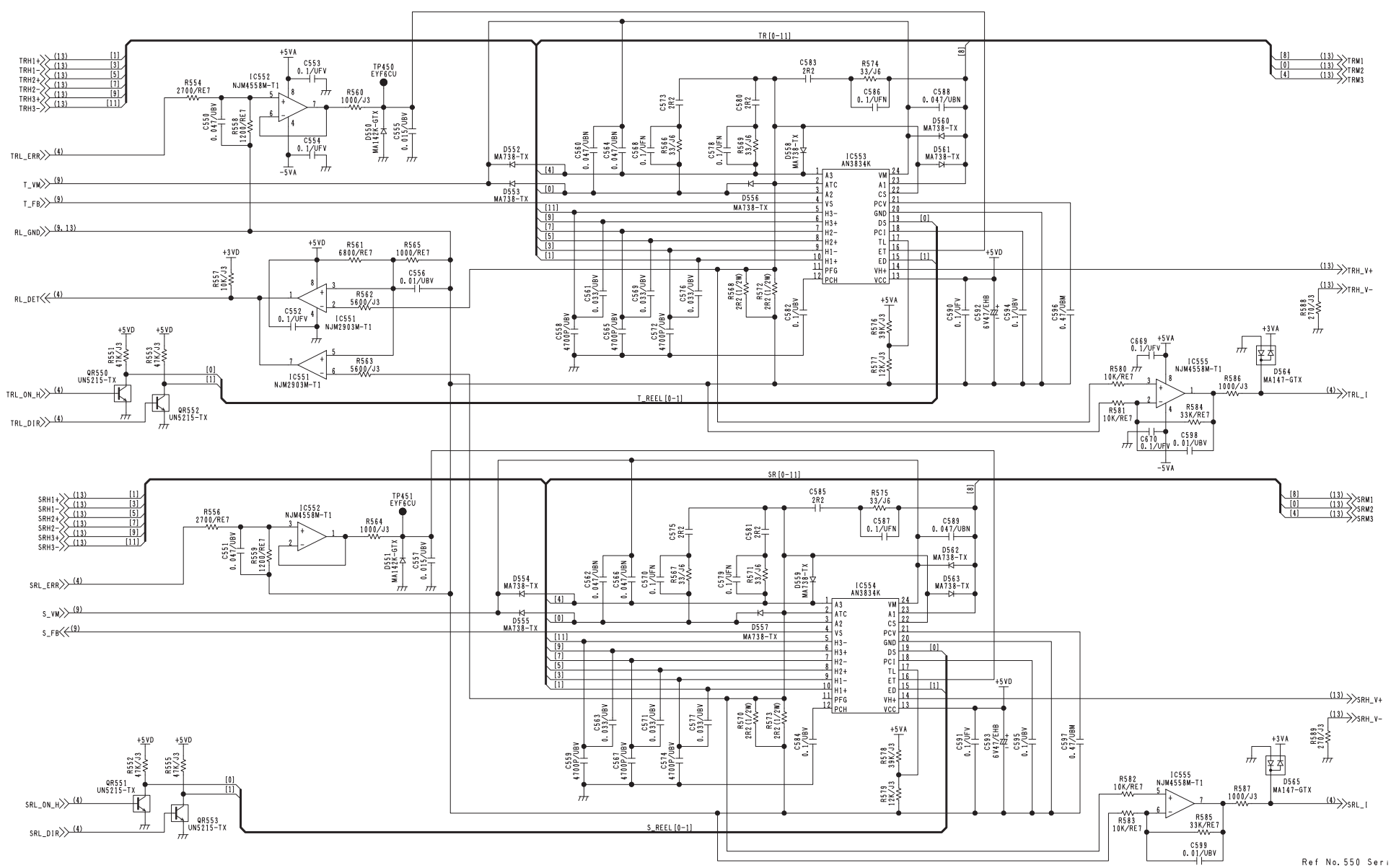
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



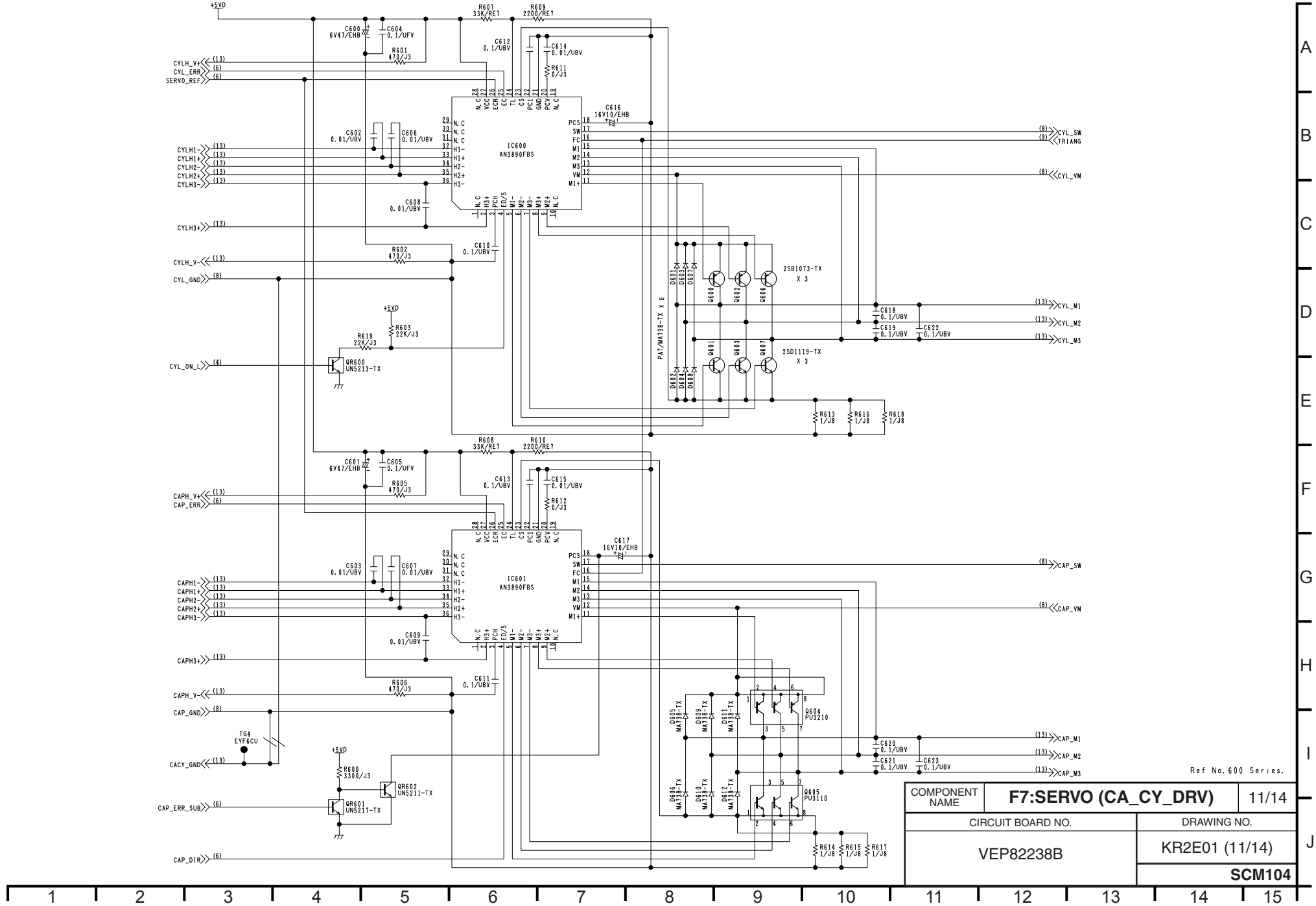
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

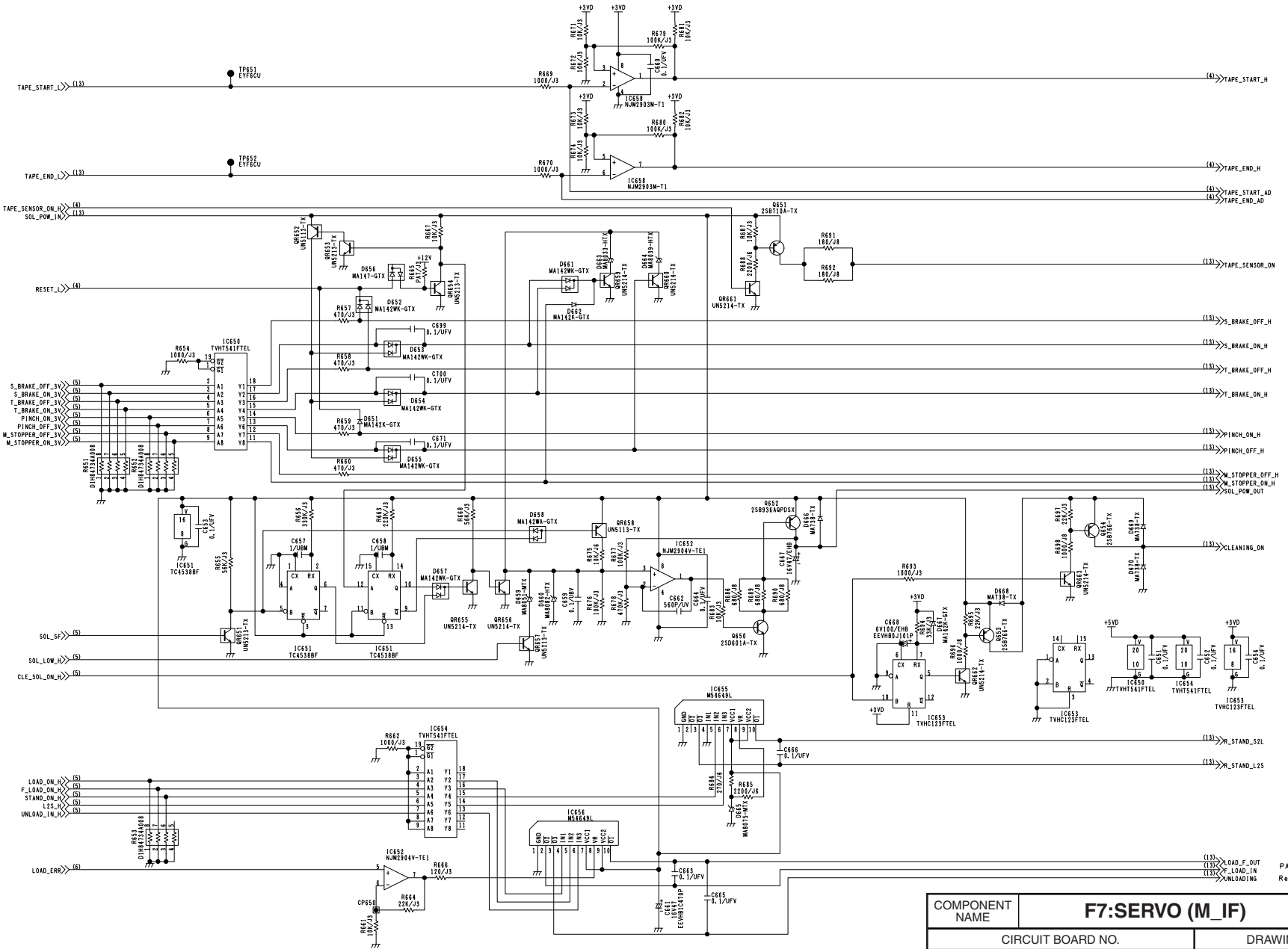
⚠ 警告 ⚠の部品は、安全上重要な部品です。
交換するときは、安全及び性能維持のため、
必ず指定の部品をご使用ください。

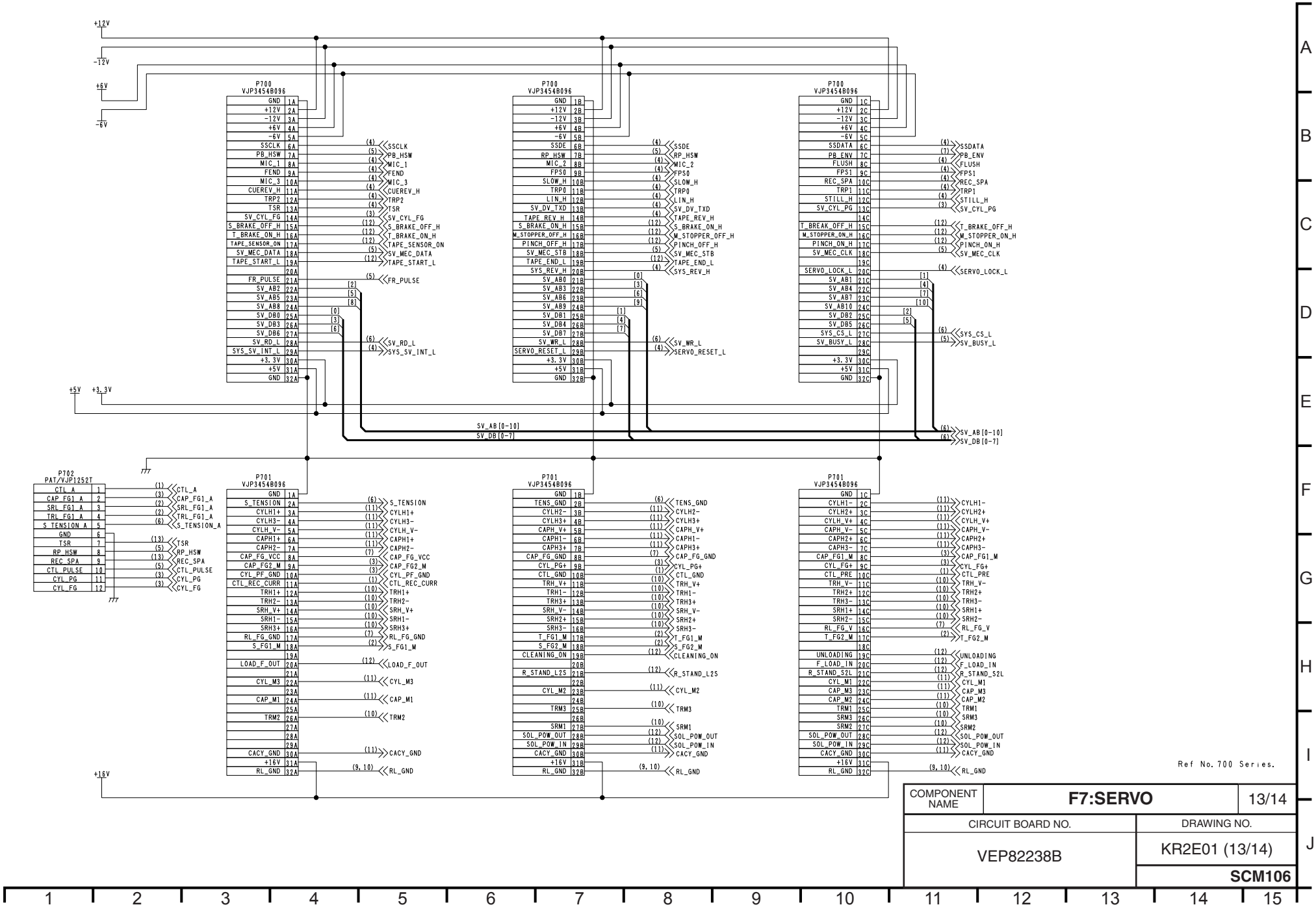
COMPONENT NAME	F7:SERVO (SW1)	09/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP82238B		KR2E01 (9/14)
		SCM102



COMPONENT NAME	F7:SERVO (RL_DRV)	10/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82238B	KR2E01(10/14)	
	SCM103	


+5VD
R607 33K/RE7
R609 2200/RE7
C600 6V47/EHB
C604 0.1/UFV
R601 470/J3
C612 0.1/UBV
C614 0.01/UBV
R611 0/J3
CYLH_V+
CYL_ERR
SERVO_REF
IC600 AN3890FBS
C616 16V10/EHB
C602 0.01/UBV
C606 0.01/UBV
CYLH1-
CYLH1+
CYLH2-
CYLH2+
CYLH3-
C608 0.01/UBV
CYLH3+
C610 0.1/UBV
R602 470/J3
CYLH_V-
CYL_GND
CYL_SW
TRIANG
CYL_VM
PAT/MA738-TX X 6
2SB1073-TX X 3
2SD1119-TX X 3
Q600
Q602
Q606
Q601
Q603
Q607
D601
D603
D607
D602
D604
D608
C618 0.1/UBV
C619 0.1/UBV
C622 0.1/UBV
CYL_M1
CYL_M2
CYL_M3
R603 22K/J3
R619 22K/J3
CYL_ON_L
QR600 UN5213-TX
R613 1/J8
R616 1/J8
R618 1/J8
R608 33K/RE7
R610 2200/RE7
C601 6V47/EHB
C605 0.1/UFV
R605 470/J3
C613 0.1/UBV
C615 0.01/UBV
R612 0/J3
CAPH_V+
CAP_ERR
IC601 AN3890FBS
C617 16V10/EHB
C603 0.01/UBV
C607 0.01/UBV
CAPH1-
CAPH1+
CAPH2-
CAPH2+
CAPH3-
C609 0.01/UBV
CAPH3+
C611 0.1/UBV
R606 470/J3
CAPH_V-
CAP_GND
CAP_SW
CAP_VM
Q604 PU3210
Q605 PU3110
D605 MA738-TX
D609 MA738-TX
D611 MA738-TX
D606 MA738-TX
D610 MA738-TX
D612 MA738-TX
C620 0.1/UBV
C621 0.1/UBV
C623 0.1/UBV
CAP_M1
CAP_M2
CAP_M3
TG4 EYF6CU
CACY_GND
+5VD
R600 3300/J3
QR602 UN5211-TX
QR601 UN5217-TX
CAP_ERR_SUB
R614 1/J8
R615 1/J8
R617 1/J8
CAP_DIR
Ref No. 600 Series.
COMPONENT NAME
F7:SERVO (CA_CY_DRV)
11/14
CIRCUIT BOARD NO.
VEP82238B
DRAWING NO.
KR2E01 (11/14)
SCM104


TAPE_START_L
TAPE_END_L
TAPE_SENSOR_ON_H
SOL_POW_IN
RESET_L
S_BRAKE_OFF_3V
S_BRAKE_ON_3V
T_BRAKE_OFF_3V
T_BRAKE_ON_3V
PINCH_ON_3V
PINCH_OFF_3V
M_STOPPER_OFF_3V
M_STOPPER_ON_3V
SOL_SF
SOL_LOW_H
CLE_SOL_ON_H
LOAD_ON_H
F_LOAD_ON_H
STAND_ON_H
L2S_H
UNLOAD_IN_H
LOAD_ERR
TAPE_START_H
TAPE_END_H
TAPE_START_AD
TAPE_END_AD
TAPE_SENSOR_ON
S_BRAKE_OFF_H
S_BRAKE_ON_H
T_BRAKE_OFF_H
T_BRAKE_ON_H
PINCH_ON_H
PINCH_OFF_H
M_STOPPER_OFF_H
M_STOPPER_ON_H
SOL_POW_OUT
CLEANING_ON
R_STAND_S2L
R_STAND_L2S
LOAD_F_OUT
F_LOAD_IN
UNLOADING
IC650 TVHT541FTEL
IC651 TC4538BF
IC652 NJM2904V-TE1
IC653 TVHC123FTEL
IC654 TVHT541FTEL
IC655 MS4649L
IC656 MS4649L
IC658 NJM2903M-T1
Q650 2SD601A-TX
Q651 2SB710A-TX
Q652 2SB938AQPDSX
QR650 UN5113-TX
QR651 UN5213-TX
QR652 UN5113-TX
QR653 UN5213-TX
QR654 UN5113-TX
QR655 UN5214-TX
QR656 UN5214-TX
QR657 UN5213-TX
QR659 UN5214-TX
QR661 UN5214-TX
QR662 UN5214-TX
QR663 UN5214-TX
QR664 2SB716-TX
QR665 2SB716-TX
D650 MA142WA-GTX
D651 MA142K-GTX
D652 MA142WK-GTX
D653 MA142WK-GTX
D654 MA142WK-GTX
D655 MA142WK-GTX
D656 MA147-GTX
D657 MA142WK-GTX
D658 MA142WA-GTX
D659 MA8082-HTX
D660 MA8082-HTX
D661 MA142WK-GTX
D662 MA142K-GTX
D663 MA8082-HTX
D664 MA8039-HTX
D665 MA8039-HTX
D666 MA715-TX
D667 MA715-TX
D668 MA738-TX
D669 MA715-TX
D670 MA715-TX
D671 MA8075-MTX
D672 MA8075-MTX
D673 MA8075-MTX
D674 MA8075-MTX
D675 MA8075-MTX
D676 MA8075-MTX
D677 MA8075-MTX
D678 MA8075-MTX
D679 MA8075-MTX
D680 MA8075-MTX
D681 MA8075-MTX
D682 MA8075-MTX
D683 MA8075-MTX
D684 MA8075-MTX
D685 MA8075-MTX
D686 MA8075-MTX
D687 MA8075-MTX
D688 MA8075-MTX
D689 MA8075-MTX
D690 MA8075-MTX

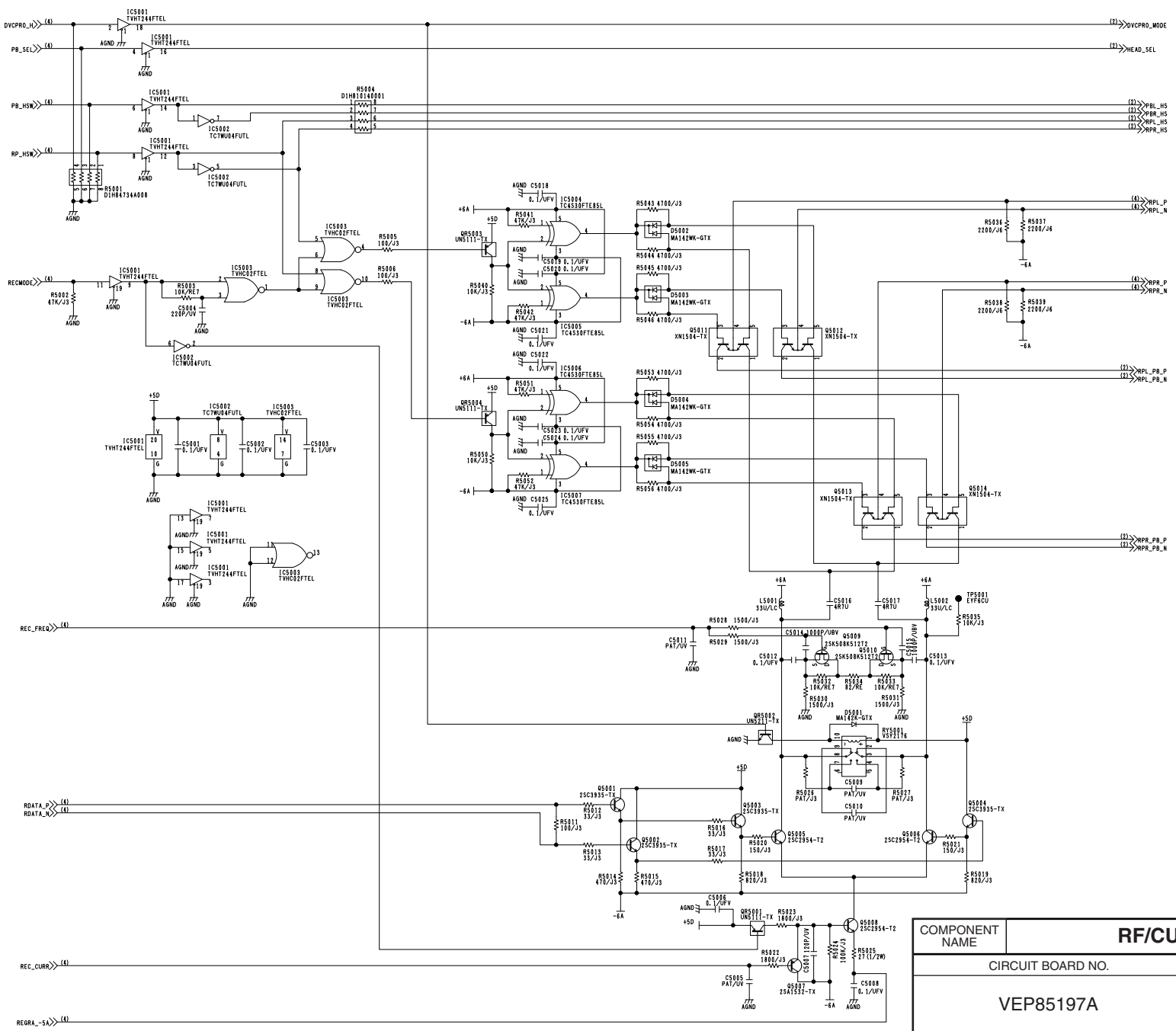

+12V
-12V
+6V
-6V
+5V
+3.3V
+16V
P700
VJP3454B096
GND 1A
+12V 2A
-12V 3A
+6V 4A
-6V 5A
SSCLK 6A
PB_HSW 7A
MIC_1 8A
FEND 9A
MIC_3 10A
CUEREV_H 11A
TRP2 12A
TSR 13A
SV_CYL_FG 14A
S_BRAKE_OFF_H 15A
T_BRAKE_ON_H 16A
TAPE_SENSOR_ON 17A
SV_MEC_DATA 18A
TAPE_START_L 19A
FR_PULSE 21A
SV_AB2 22A
SV_AB5 23A
SV_AB8 24A
SV_DB0 25A
SV_DB3 26A
SV_DB6 27A
SV_RD_L 28A
SYS_SV_INT_L 29A
+3.3V 30A
+5V 31A
GND 32A
SSCLK
PB_HSW
MIC_1
FEND
MIC_3
CUEREV_H
TRP2
TSR
SV_CYL_FG
S_BRAKE_OFF_H
T_BRAKE_ON_H
TAPE_SENSOR_ON
SV_MEC_DATA
TAPE_START_L
FR_PULSE
SV_RD_L
SYS_SV_INT_L
GND 1B
+12V 2B
-12V 3B
+6V 4B
-6V 5B
SSDE 6B
RP_HSW 7B
MIC_2 8B
FPS0 9B
SLOW_H 10B
TRP0 11B
LIN_H 12B
SV_DV_TXD 13B
TAPE_REV_H 14B
S_BRAKE_ON_H 15B
M_STOPPER_OFF_H 16B
PINCH_OFF_H 17B
SV_MEC_STB 18B
TAPE_END_L 19B
SYS_REV_H 20B
SV_AB0 21B
SV_AB3 22B
SV_AB6 23B
SV_AB9 24B
SV_DB1 25B
SV_DB4 26B
SV_DB7 27B
SV_WR_L 28B
SERVO_RESET_L 29B
+3.3V 30B
+5V 31B
GND 32B
SSDE
RP_HSW
MIC_2
FPS0
SLOW_H
TRP0
LIN_H
SV_DV_TXD
TAPE_REV_H
S_BRAKE_ON_H
M_STOPPER_OFF_H
PINCH_OFF_H
SV_MEC_STB
TAPE_END_L
SYS_REV_H
SV_WR_L
SERVO_RESET_L
GND 1C
+12V 2C
-12V 3C
+6V 4C
-6V 5C
SSDATA 6C
PB_ENV 7C
FLUSH 8C
FPS1 9C
REC_SPA 10C
TRP1 11C
STILL_H 12C
SV_CYL_PG 13C
14C
T_BREAK_OFF_H 15C
M_STOPPER_ON_H 16C
PINCH_ON_H 17C
SV_MEC_CLK 18C
19C
SERVO_LOCK_L 20C
SV_AB1 21C
SV_AB4 22C
SV_AB7 23C
SV_AB10 24C
SV_DB2 25C
SV_DB5 26C
SYS_CS_L 27C
SV_BUSY_L 28C
29C
+3.3V 30C
+5V 31C
GND 32C
SSDATA
PB_ENV
FLUSH
FPS1
REC_SPA
TRP1
STILL_H
SV_CYL_PG
T_BRAKE_OFF_H
M_STOPPER_ON_H
PINCH_ON_H
SV_MEC_CLK
SERVO_LOCK_L
SYS_CS_L
SV_BUSY_L
SV_AB[0-10]
SV_DB[0-7]
P702
PAT/VJP1252T
CTL_A 1
CAP_FG1_A 2
SRL_FG1_A 3
TRL_FG1_A 4
S_TENSION_A 5
GND 6
TSR 7
RP_HSW 8
REC_SPA 9
CTL_PULSE 10
CYL_PG 11
CYL_FG 12
CTL_A
CAP_FG1_A
SRL_FG1_A
TRL_FG1_A
S_TENSION_A
TSR
RP_HSW
REC_SPA
CTL_PULSE
CYL_PG
CYL_FG
P701
VJP3454B096
GND 1A
S_TENSION 2A
CYLH1+ 3A
CYLH3- 4A
CYLH_V- 5A
CAPH1+ 6A
CAPH2- 7A
CAP_FG_VCC 8A
CAP_FG2_M 9A
CYL_PF_GND 10A
CTL_REC_CURR 11A
TRH1+ 12A
TRH2- 13A
SRH_V+ 14A
SRH1- 15A
SRH3+ 16A
RL_FG_GND 17A
S_FG1_M 18A
19A
LOAD_F_OUT 20A
21A
CYL_M3 22A
23A
CAP_M1 24A
25A
TRM2 26A
27A
28A
29A
CACY_GND 30A
+16V 31A
RL_GND 32A
S_TENSION
CYLH1+
CYLH3-
CYLH_V-
CAPH1+
CAPH2-
CAP_FG_VCC
CAP_FG2_M
CYL_PF_GND
CTL_REC_CURR
TRH1+
TRH2-
SRH_V+
SRH1-
SRH3+
RL_FG_GND
S_FG1_M
LOAD_F_OUT
CYL_M3
CAP_M1
TRM2
CACY_GND
RL_GND
GND 1B
TENS_GND 2B
CYLH2- 3B
CYLH3+ 4B
CAPH_V+ 5B
CAPH1- 6B
CAPH3+ 7B
CAP_FG_GND 8B
CYL_PG+ 9B
CTL_GND 10B
TRH_V+ 11B
TRH1- 12B
TRH3+ 13B
SRH_V- 14B
SRH2+ 15B
SRH3- 16B
T_FG1_M 17B
S_FG2_M 18B
CLEANING_ON 19B
20B
R_STAND_L2S 21B
22B
CYL_M2 23B
24B
TRM3 25B
26B
SRM1 27B
SOL_POW_OUT 28B
SOL_POW_IN 29B
CACY_GND 30B
+16V 31B
RL_GND 32B
TENS_GND
CYLH2-
CYLH3+
CAPH_V+
CAPH1-
CAPH3+
CAP_FG_GND
CYL_PG+
CTL_GND
TRH_V+
TRH1-
TRH3+
SRH_V-
SRH2+
SRH3-
T_FG1_M
S_FG2_M
CLEANING_ON
R_STAND_L2S
CYL_M2
TRM3
SRM1
SOL_POW_OUT
SOL_POW_IN
CACY_GND
RL_GND
GND 1C
CYLH1- 2C
CYLH2+ 3C
CYLH_V+ 4C
CAPH_V- 5C
CAPH2+ 6C
CAPH3- 7C
CAP_FG1_M 8C
CYL_FG+ 9C
CTL_PRE 10C
TRH_V- 11C
TRH2+ 12C
TRH3- 13C
SRH1+ 14C
SRH2- 15C
RL_FG_V 16C
T_FG2_M 17C
18C
UNLOADING 19C
F_LOAD_IN 20C
R_STAND_S2L 21C
CYL_M1 22C
CAP_M3 23C
CAP_M2 24C
TRM1 25C
SRM3 26C
SRM2 27C
SOL_POW_OUT 28C
SOL_POW_IN 29C
CACY_GND 30C
+16V 31C
RL_GND 32C
CYLH1-
CYLH2+
CYLH_V+
CAPH_V-
CAPH2+
CAPH3-
CAP_FG1_M
CYL_FG+
CTL_PRE
TRH_V-
TRH2+
TRH3-
SRH1+
SRH2-
RL_FG_V
T_FG2_M
UNLOADING
F_LOAD_IN
R_STAND_S2L
CYL_M1
CAP_M3
CAP_M2
TRM1
SRM3
SRM2
SOL_POW_OUT
SOL_POW_IN
CACY_GND
RL_GND
Ref No. 700 Series.
COMPONENT NAME
F7:SERVO
13/14
CIRCUIT BOARD NO.
VEP82238B
DRAWING NO.
KR2E01 (13/14)
SCM106

IP201 MN1030F04KHF			IP300 EPM3256A1410		
VSI3565A			VSI3567		

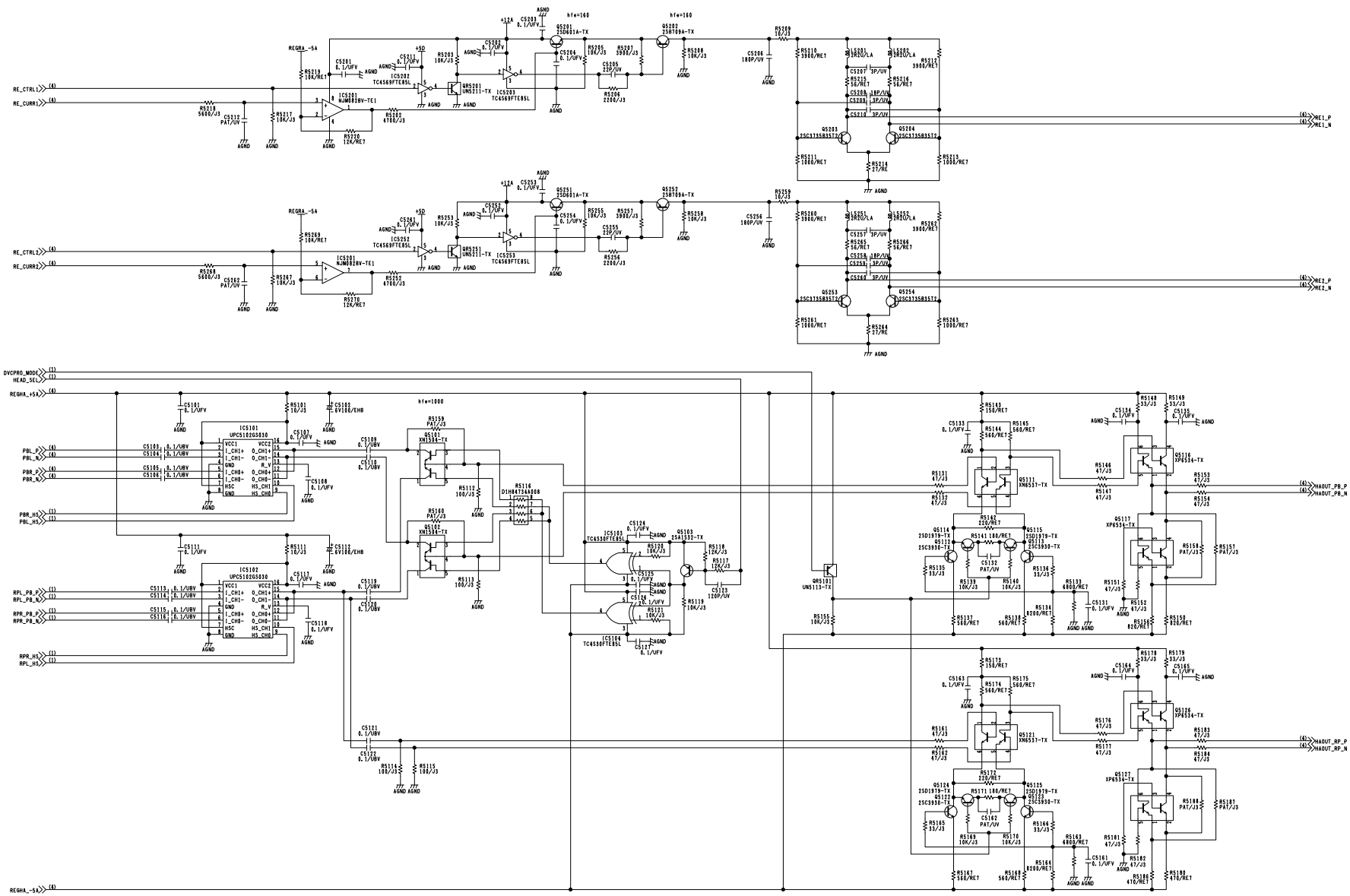
COMPONENT NAME	F7:SERVO (SOFT)	14/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP82238B		KR2E01 (14/14)
		SCM107

A B C D E F G H I J

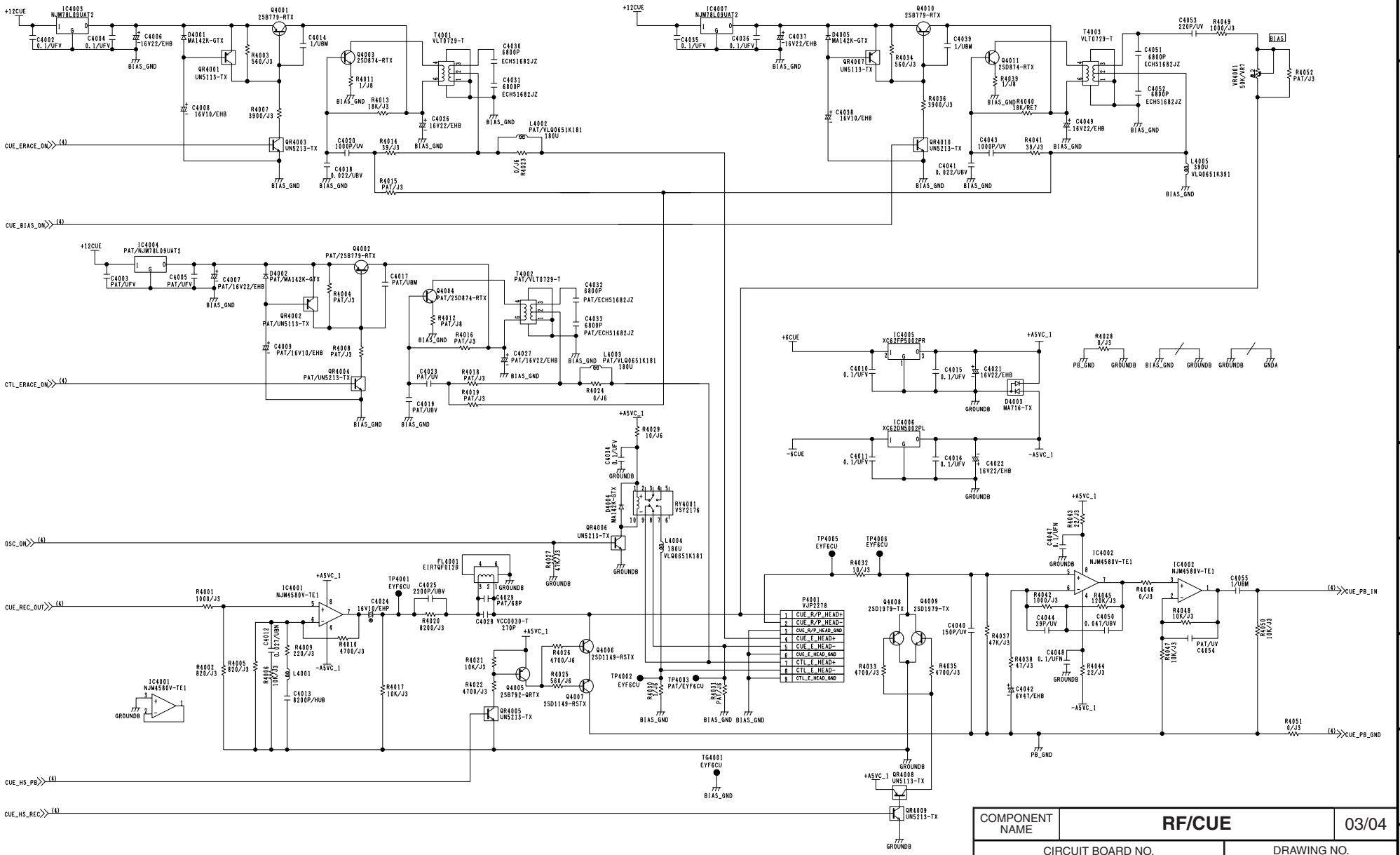
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

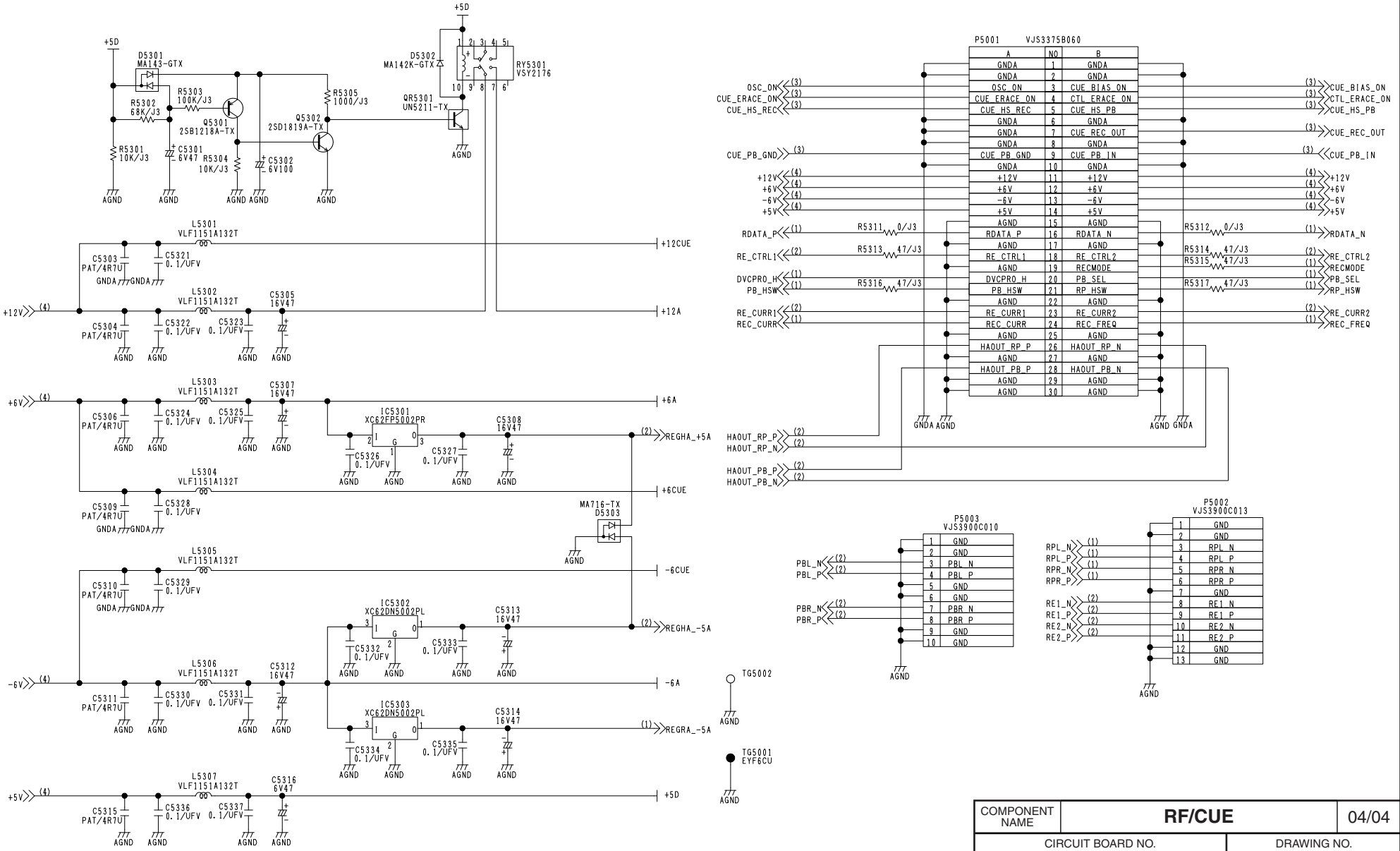


COMPONENT NAME	**RF/CUE**	01/04
CIRCUIT BOARD NO.		DRAWING NO.
VEP85197A		KR5586 (1/4)
		SCM108



COMPONENT NAME	RF/CUE	02/04
CIRCUIT BOARD NO.		DRAWING NO.
VEP85197A		KR5586 (2/4)
		SCM109

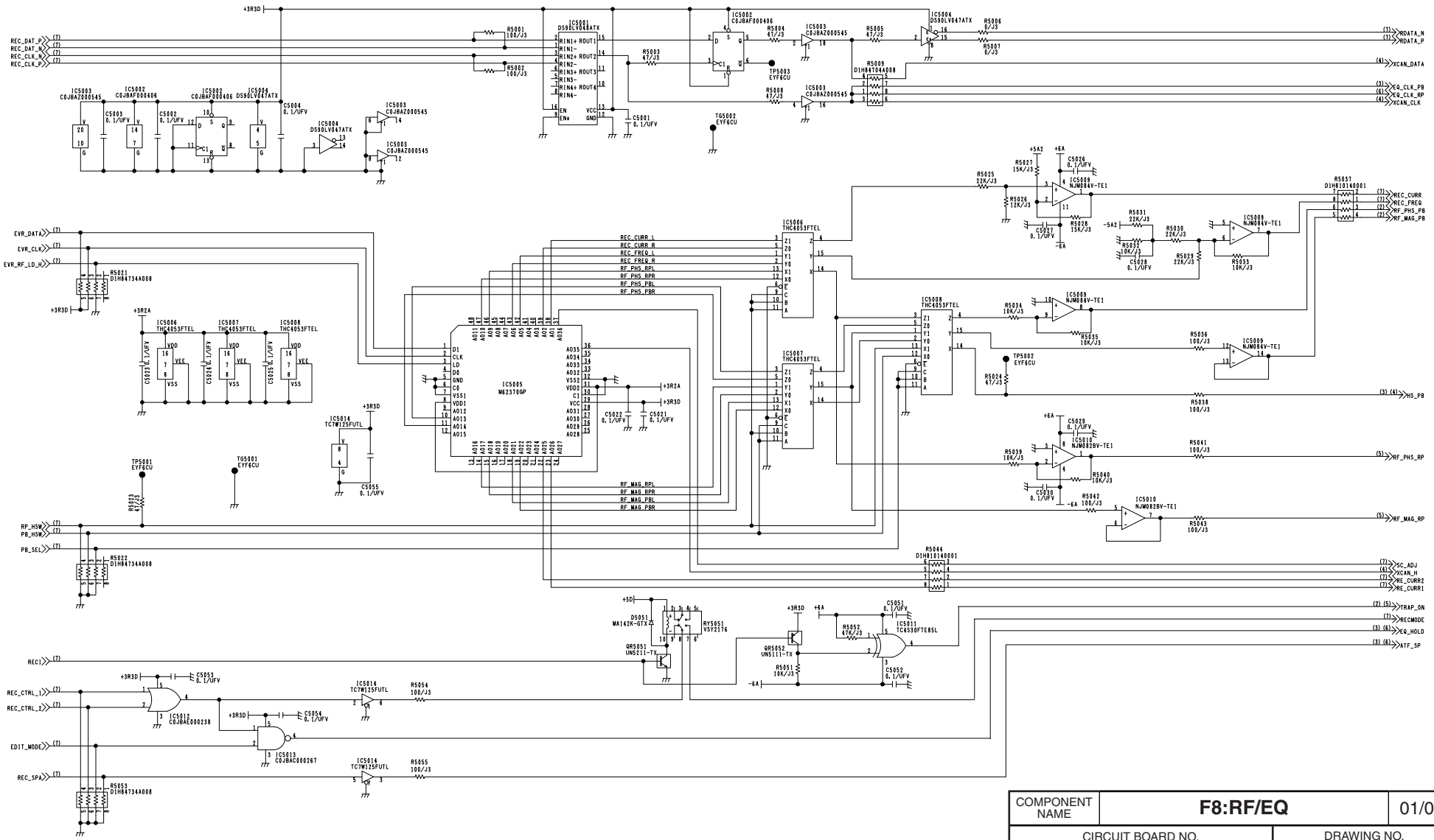

+12CUE
IC4003 NJM78L09UAT2
C4000 0.1/UFV
C4004 0.1/UFV
C4006 16V22/EHB
BIAS_GND
D4001 MA142K-GTX
Q4001 2SB779-RTX
C4014 1/UBM
QR4001 UN5113-TX
R4003 560/J3
C4008 16V10/EHB
R4007 3900/J3
QR4003 UN5213-TX
T4001 VLT0729-T
Q4003 2SD874-RTX
R4011 1/J8
R4013 18K/J3
C4030 680P ECH51682JZ
C4031 680P ECH51682JZ
C4026 16V22/EHB
L4002 PAT/VLQ0651K181 180U
C4020 1000P/UV
R4014 39/J3
C4018 0.022/UBV
R4015 PAT/J3
0/J6 R4023
CUE_ERACE_ON (4)
CUE_BIAS_ON (4)
IC4007 NJM78L09UAT2
C4035 0.1/UFV
C4036 0.1/UFV
C4037 16V22/EHB
D4005 MA142K-GTX
Q4010 2SB779-RTX
C4039 1/UBM
QR4007 UN5113-TX
R4034 560/J3
C4038 16V10/EHB
R4036 3900/J3
Q4011 2SD874-RTX
R4039 1/J8
R4040 18K/RE7
T4003 VLT0729-T
C4053 220P/UV
R4049 1000/J3
C4051 680P ECH51682JZ
C4052 680P ECH51682JZ
BIAS
VR4001 50K/VRT
R4052 PAT/J3
C4049 16V22/EHB
C4043 1000P/UV
R4041 39/J3
QR4010 UN5213-TX
C4041 0.022/UBV
L4005 390U VLQ0651K391
IC4004 PAT/NJM78L09UAT2
C4003 PAT/UFV
C4005 PAT/UFV
C4007 PAT/16V22/EHB
Q4002 PAT/2SB779-RTX
D4002 PAT/MA142K-GTX
C4017 PAT/UBM
R4004 PAT/J3
QR4002 PAT/UN5113-TX
T4002 PAT/VLT0729-T
Q4004 PAT/2SD874-RTX
C4032 680P PAT/ECH51682JZ
C4033 680P PAT/ECH51682JZ
R4012 PAT/J8
R4016 PAT/J3
C4009 PAT/16V10/EHB
R4008 PAT/J3
C4027 PAT/16V22/EHB
L4003 PAT/VLQ0651K181 180U
QR4004 PAT/UN5213-TX
C4023 PAT/UV
R4018 PAT/J3
R4019 PAT/J3
R4024 0/J6
C4019 PAT/UBV
CTL_ERACE_ON (4)
+6CUE
IC4005 XC62FP5002PR
C4010 0.1/UFV
C4015 0.1/UFV
C4021 16V22/EHB
D4003 MA716-TX
R4028 0/J3
PB_GND
GROUNDB
BIAS_GND
GNDA
-6CUE
IC4006 XC62DN5002PL
C4011 0.1/UFV
C4016 0.1/UFV
C4022 16V22/EHB
+A5VC_1
-A5VC_1
R4029 10/J6
C4034 0.1/UFV
D4004 MA142K-GTX
RY4001 V5Y2176
QR4006 UN5213-TX
L4004 180U VLQ0651K181
OSC_ON (4)
R4027 47K/J3
FL4001 EIR1QF0126
TP4005 EYF6CU
TP4006 EYF6CU
R4032 10/J3
P4001 VJP2278
CUE_R/P_HEAD+
CUE_R/P_HEAD-
CUE_R/P_HEAD_GND
CUE_E_HEAD+
CUE_E_HEAD-
CUE_E_HEAD_GND
CTL_E_HEAD+
CTL_E_HEAD-
CTL_E_HEAD_GND
IC4001 NJM4580V-TE1
R4001 1000/J3
C4024 16V10/EHP
TP4001 EYF6CU
C4025 2200P/UBV
C4028 VCC0030-T 270P
C4029 PAT/68P
R4020 8200/J3
R4017 10K/J3
R4002 820/J3
R4005 820/J3
C4012 0.027/UBV
R4006 10K/J3
R4009 220/J3
L4001
C4013 8200P/HUB
R4010 4700/J3
R4021 10K/J3
R4022 4700/J3
R4026 4700/J6
R4025 560/J6
Q4005 2SB792-QRTX
Q4007 2SD1149-RSTX
Q4006 2SD1149-RSTX
QR4005 UN5213-TX
TP4002 EYF6CU
TP4003 PAT/EYF6CU
R4030 1/J8
R4031 PAT/J3
Q4008 2SD1979-TX
Q4009 2SD1979-TX
C4040 150P/UV
R4037 47K/J3
R4033 4700/J3
R4035 4700/J3
R4038 47/J3
C4042 6V47/EHB
C4047 0.1/UFN
R4043 22/J3
IC4002 NJM4580V-TE1
R4042 1000/J3
R4045 120K/J3
C4044 39P/UV
C4056 0.047/UBV
C4048 0.1/UFN
R4044 22/J3
R4046 0/J3
R4048 10K/J3
R4047 10K/J3
PAT/UV C4054
C4055 1/UBM
R4050 10K/J3
R4051 0/J3
CUE_PB_IN (4)
CUE_PB_GND (4)
CUE_REC_OUT (4)
CUE_HS_PB (4)
CUE_HS_REC (4)
TG4001 EYF6CU
QR4008 UN5113-TX
QR4009 UN5213-TX
COMPONENT NAME
RF/CUE
03/04
CIRCUIT BOARD NO.
VEP85197A
DRAWING NO.
KR5586 (3/4)
SCM110



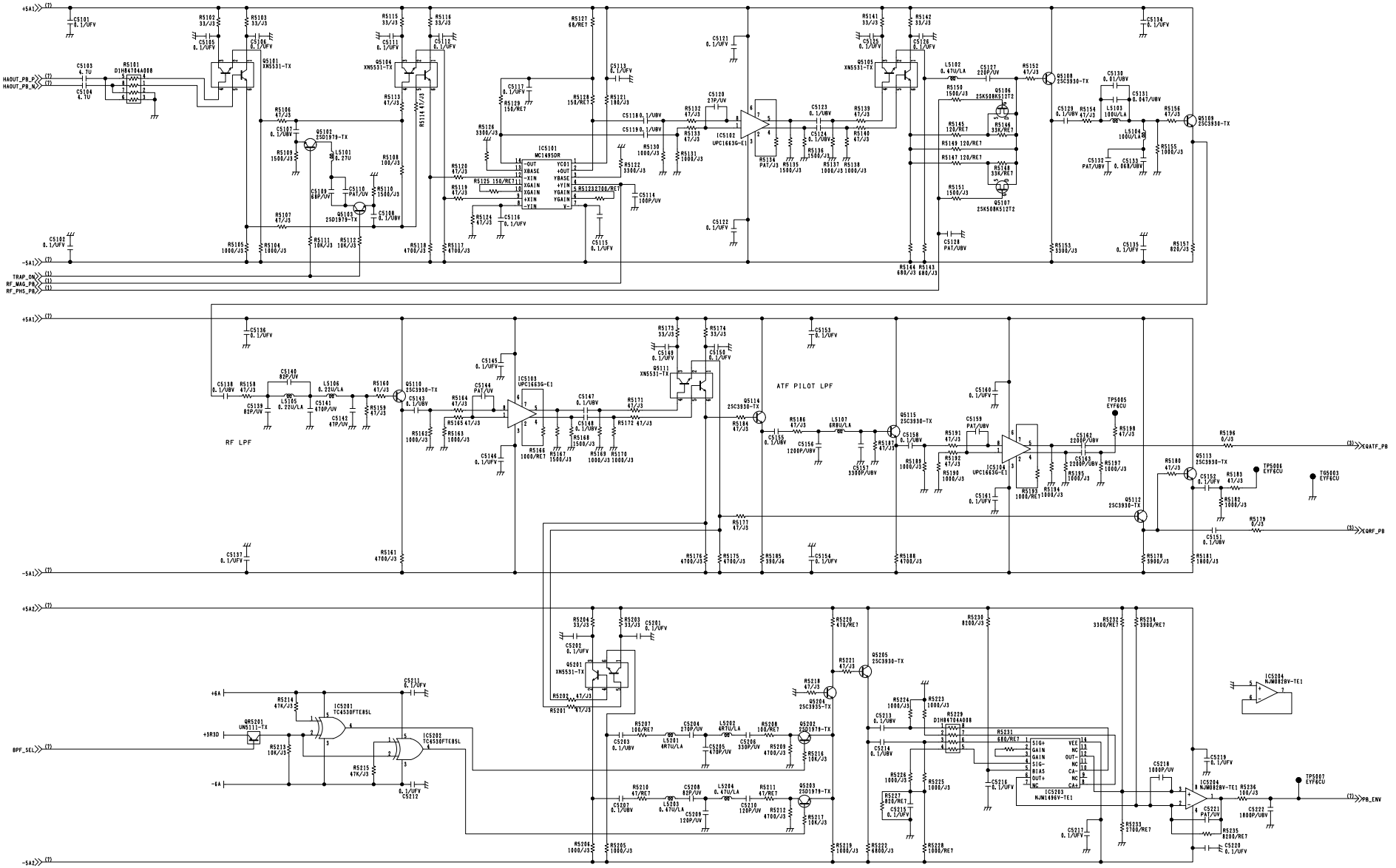
COMPONENT NAME	**RF/CUE**	04/04
CIRCUIT BOARD NO.		DRAWING NO.
VEP85197A		KR5586 (4/4)
		SCM111

A B C D E F G H I J

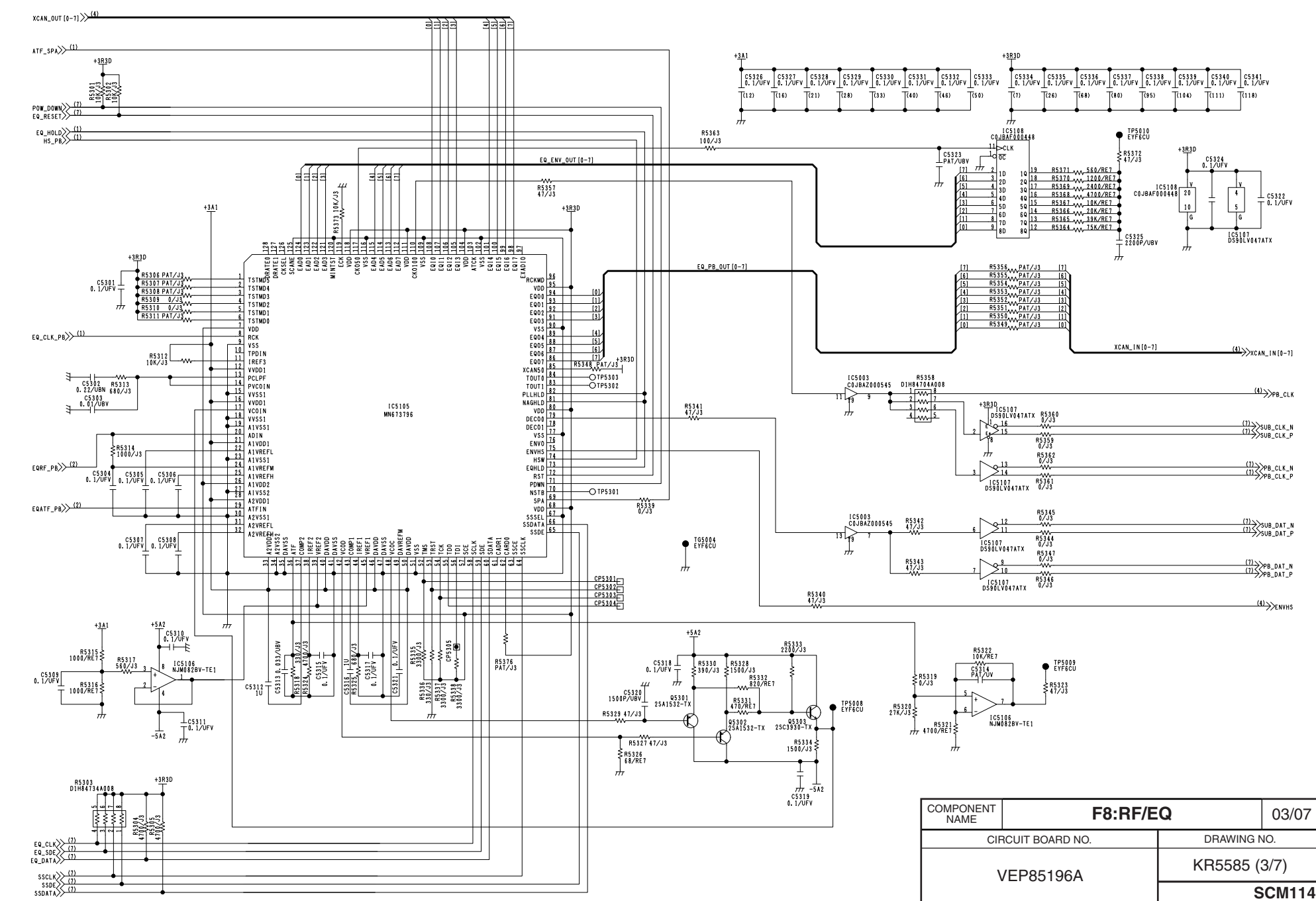
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



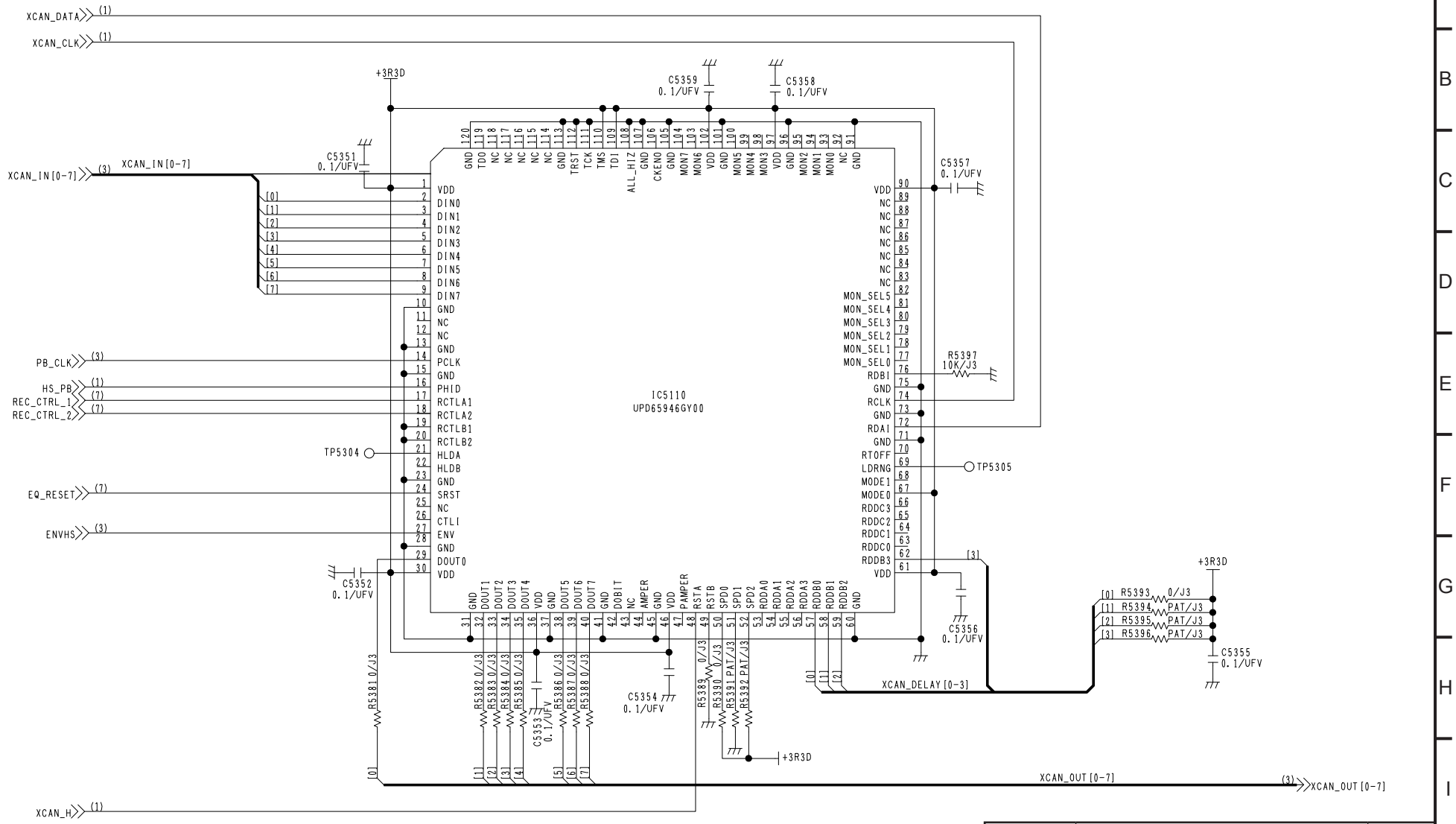
COMPONENT NAME	**F8:RF/EQ**	01/07
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85196A	KR5585 (1/7)	
	SCM112	



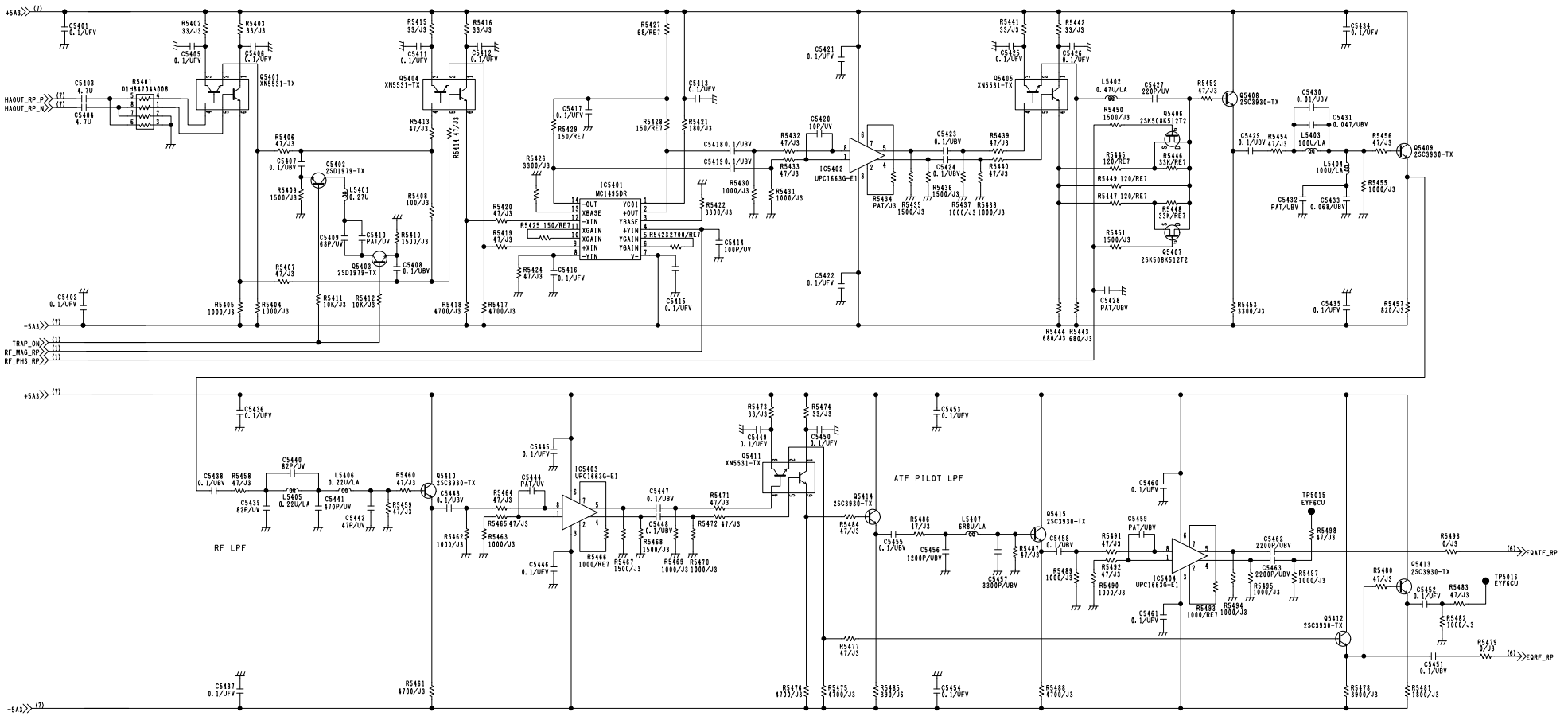
COMPONENT NAME	F8:RF/EQ	02/07
CIRCUIT BOARD NO.		DRAWING NO.
VEP85196A		KR5585 (2/7)
		SCM113



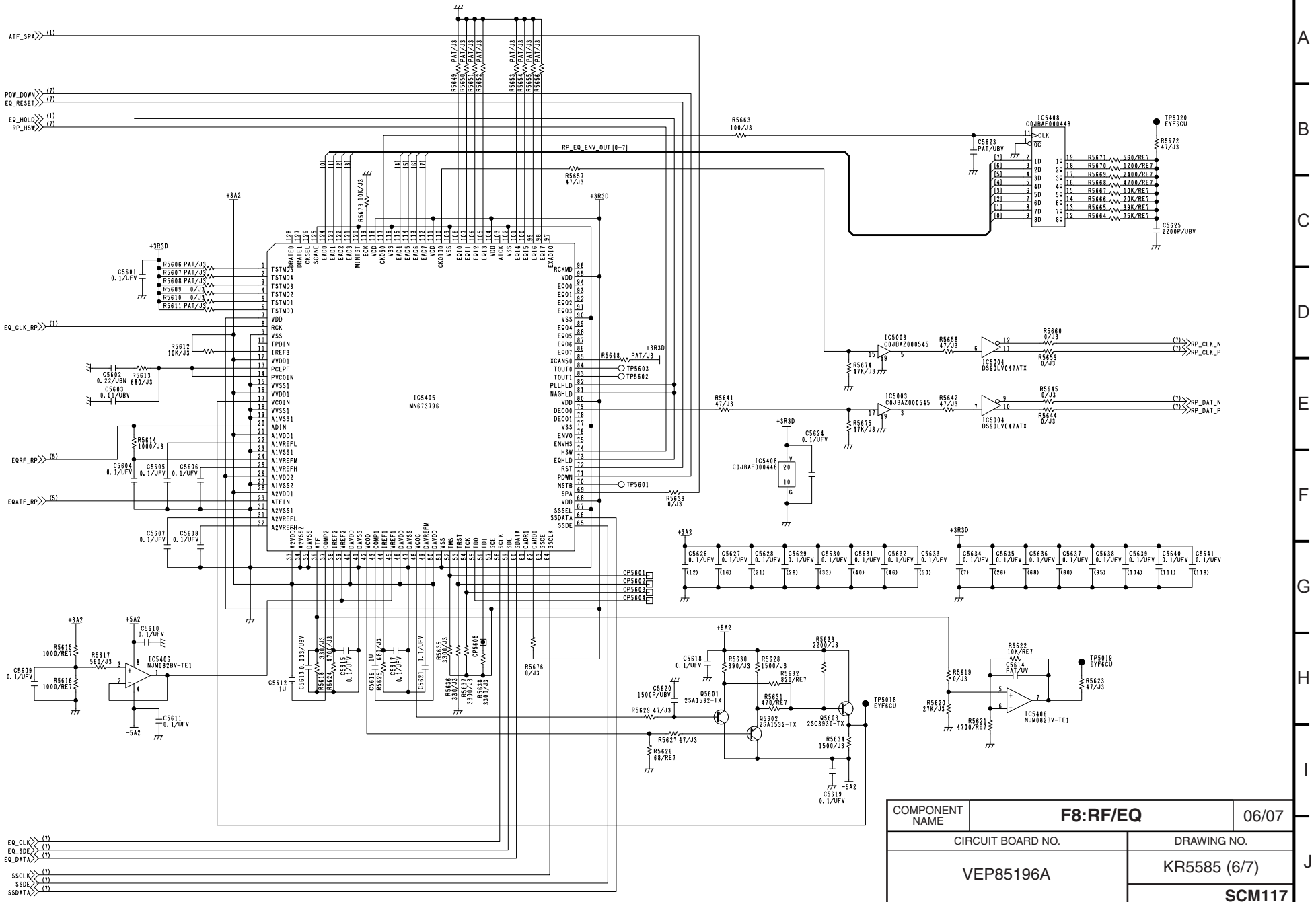
COMPONENT NAME	**F8:RF/EQ**	03/07
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85196A	KR5585 (3/7)	
	SCM114	



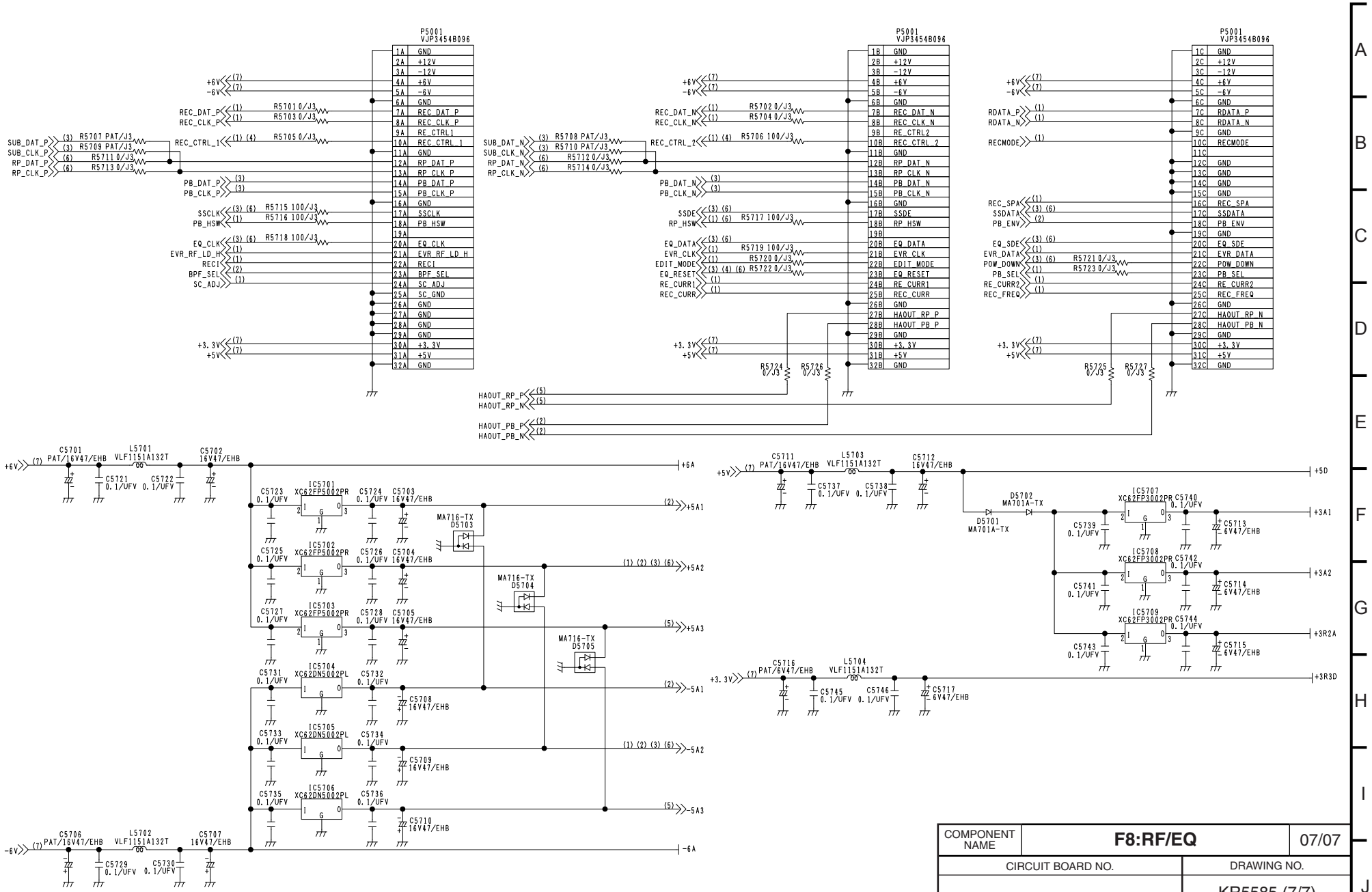
COMPONENT NAME	F8:RF/EQ	04/07
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85196A	KR5585 (4/7)	
	SCM115	



COMPONENT NAME	F8:RF/EQ	05/07
CIRCUIT BOARD NO.		DRAWING NO.
VEP85196A		KR5585 (5/7)
		SCM116

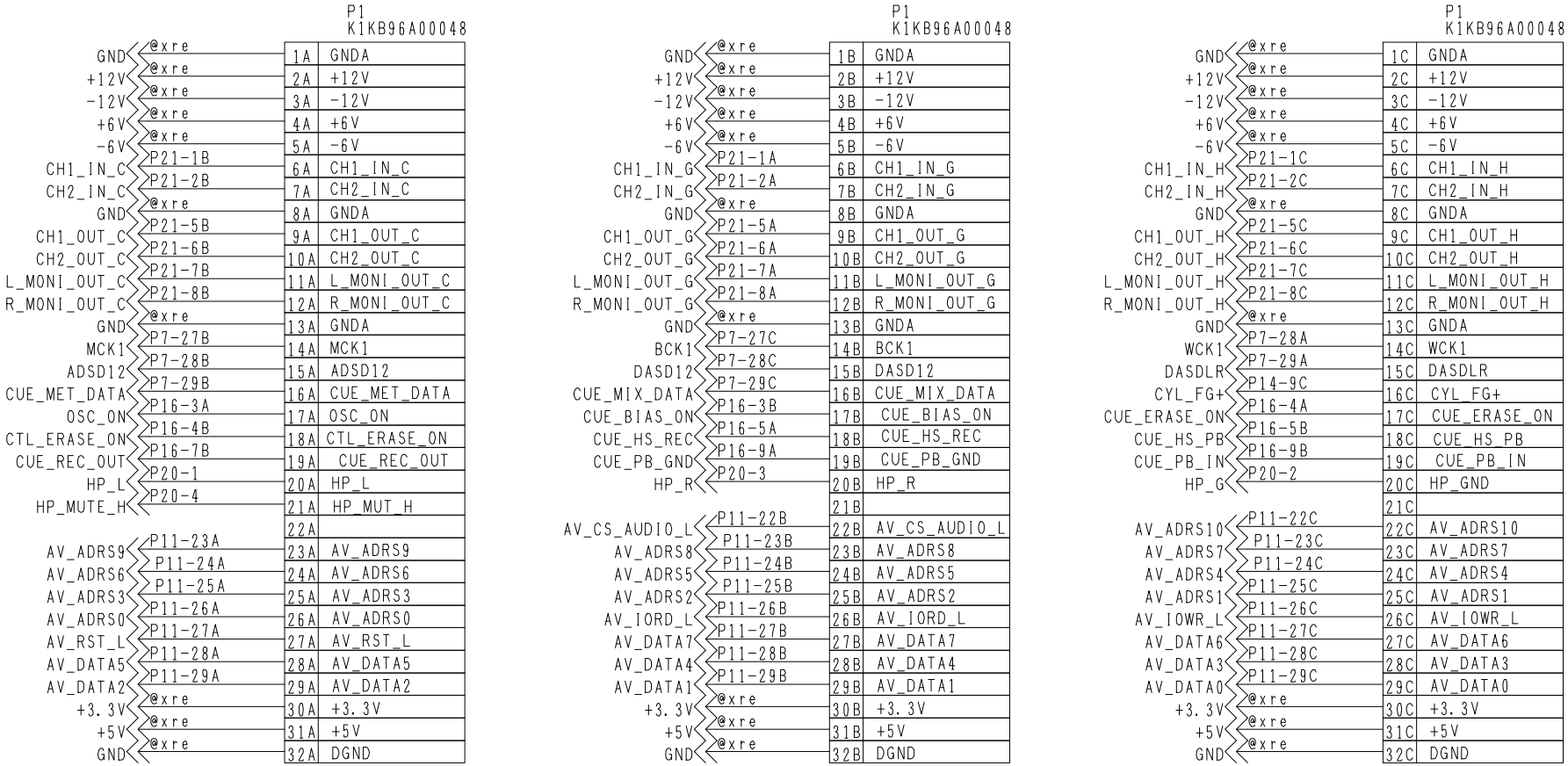


COMPONENT NAME	F8:RF/EQ	06/07
CIRCUIT BOARD NO.		DRAWING NO.
VEP85196A		KR5585 (6/7)
		SCM117



COMPONENT NAME	F8:RF/EQ	07/07
CIRCUIT BOARD NO.		DRAWING NO.
VEP85196A		KR5585 (7/7)
		SCM118

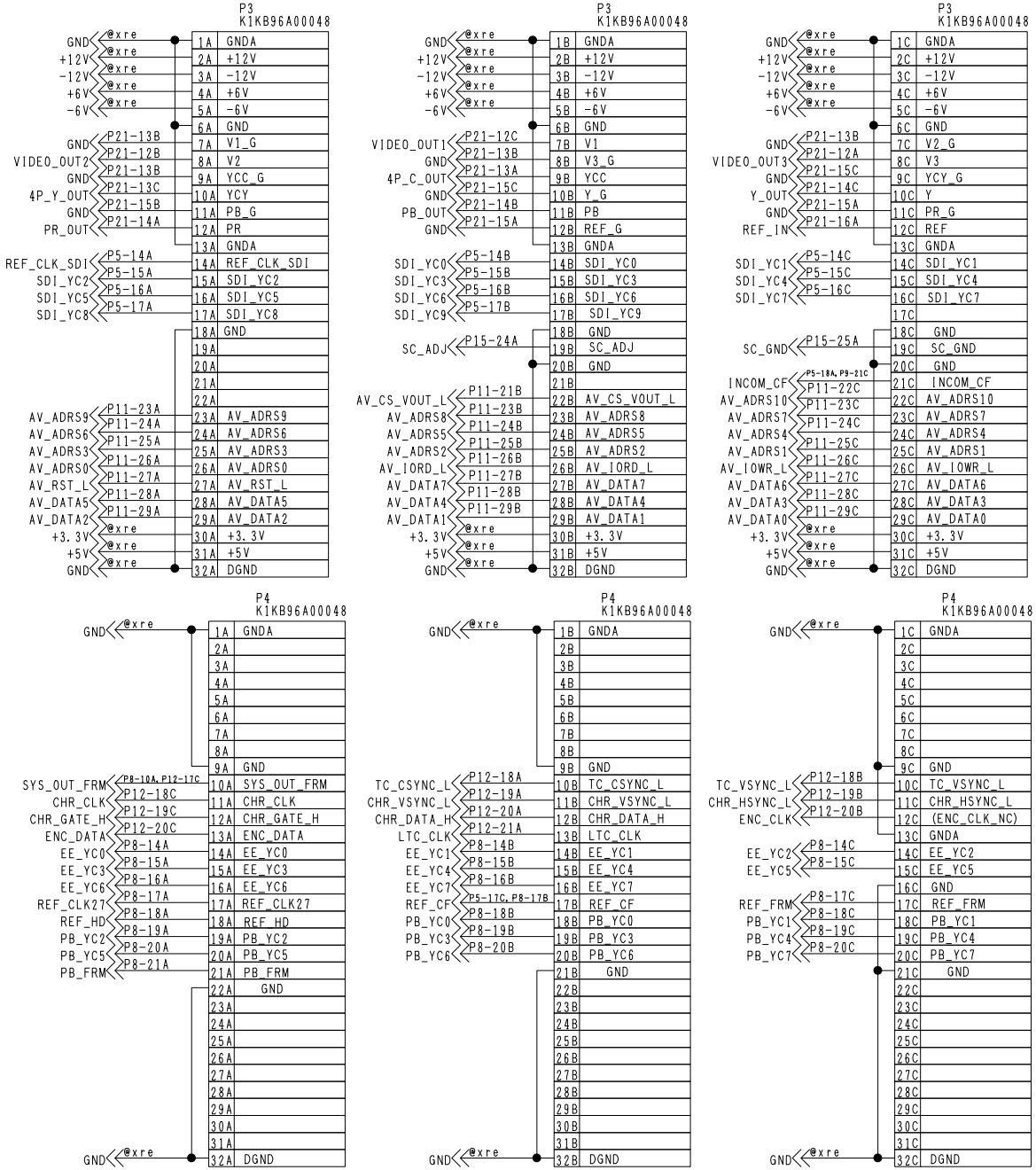
F1 (AUDIO)

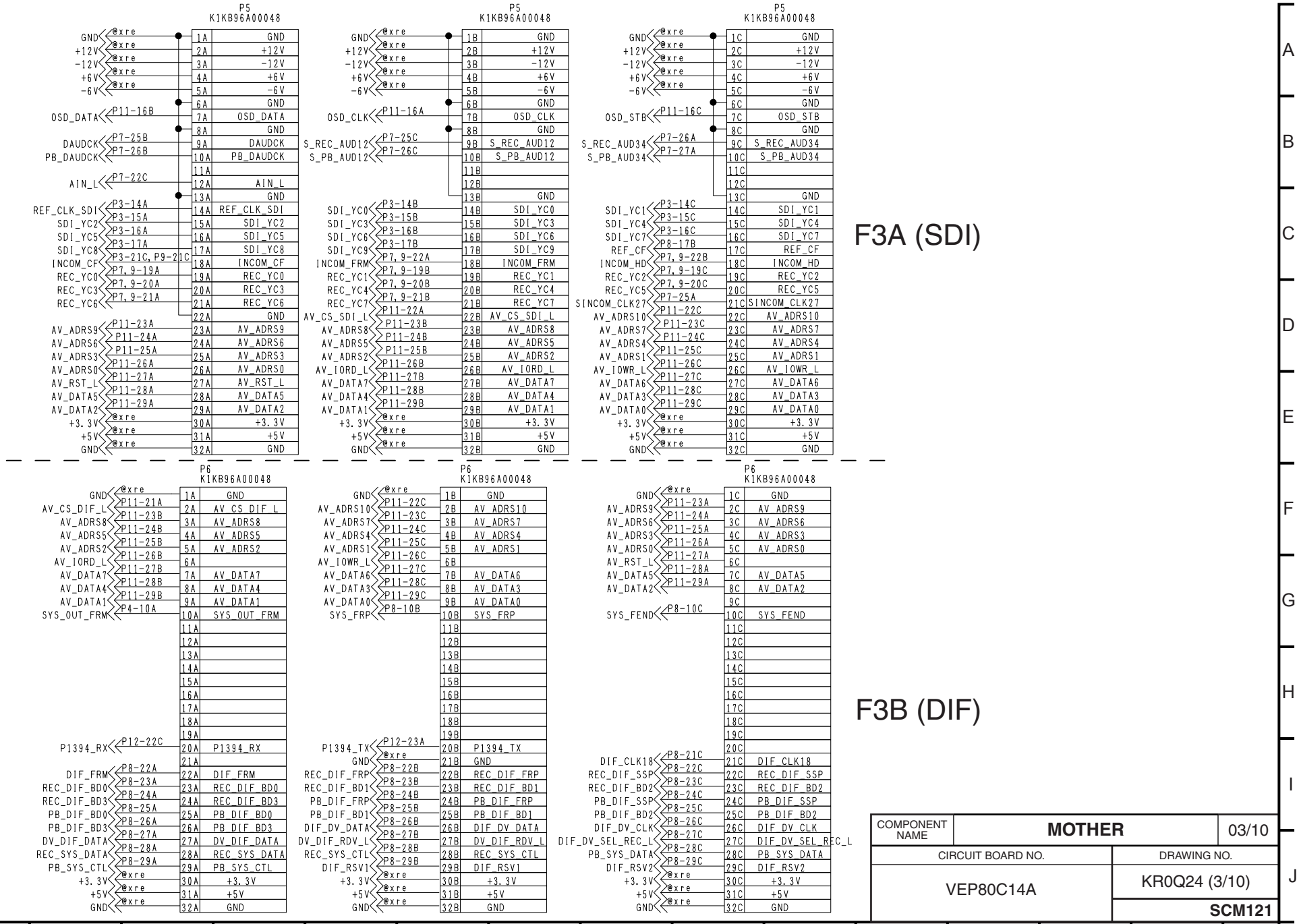


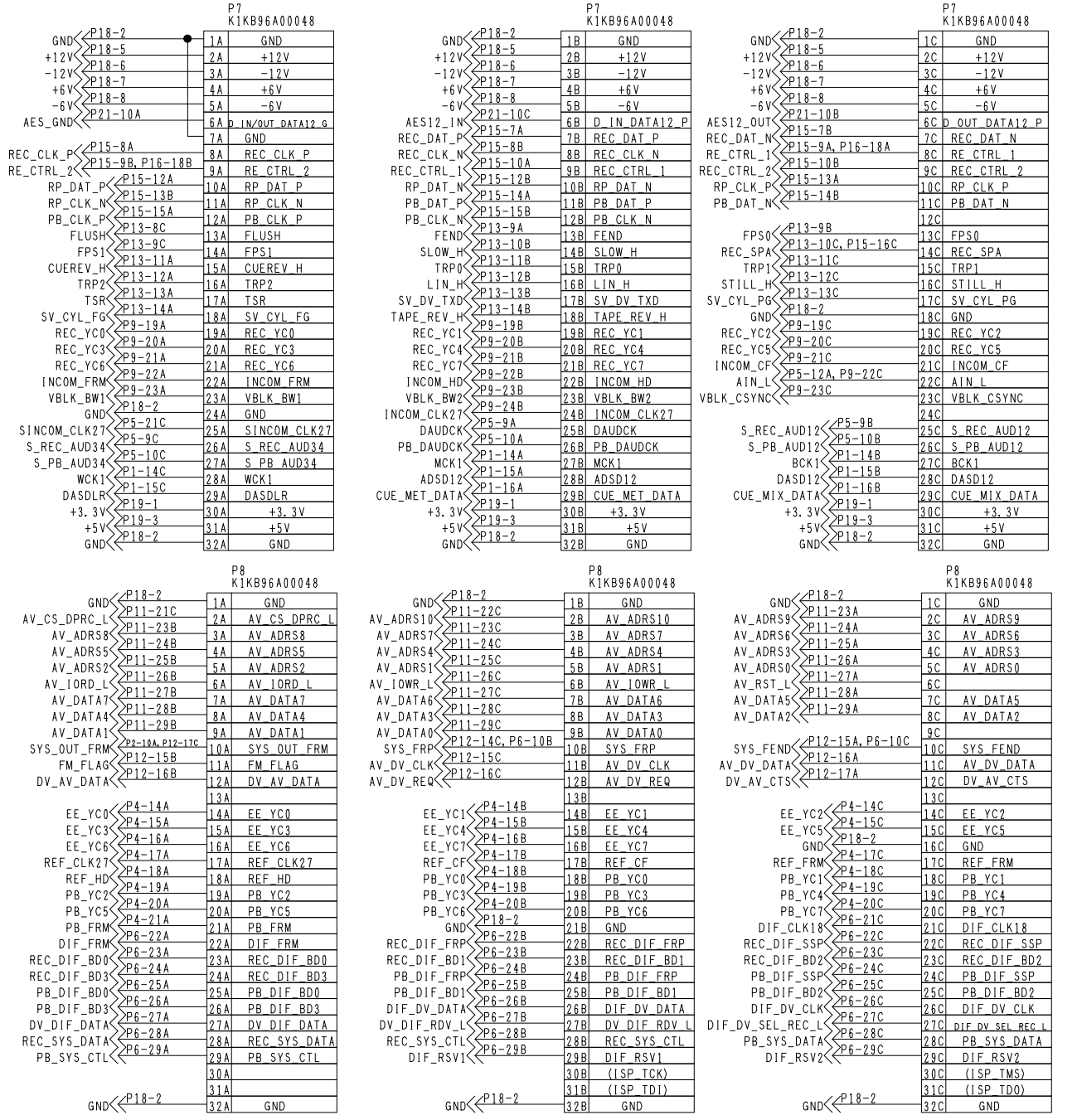
COMPONENT NAME	MOTHER	01/10
CIRCUIT BOARD NO.		DRAWING NO.
VEP80C14A		KR0Q24 (1/10)
		SCM119

A B C D E F G H I J

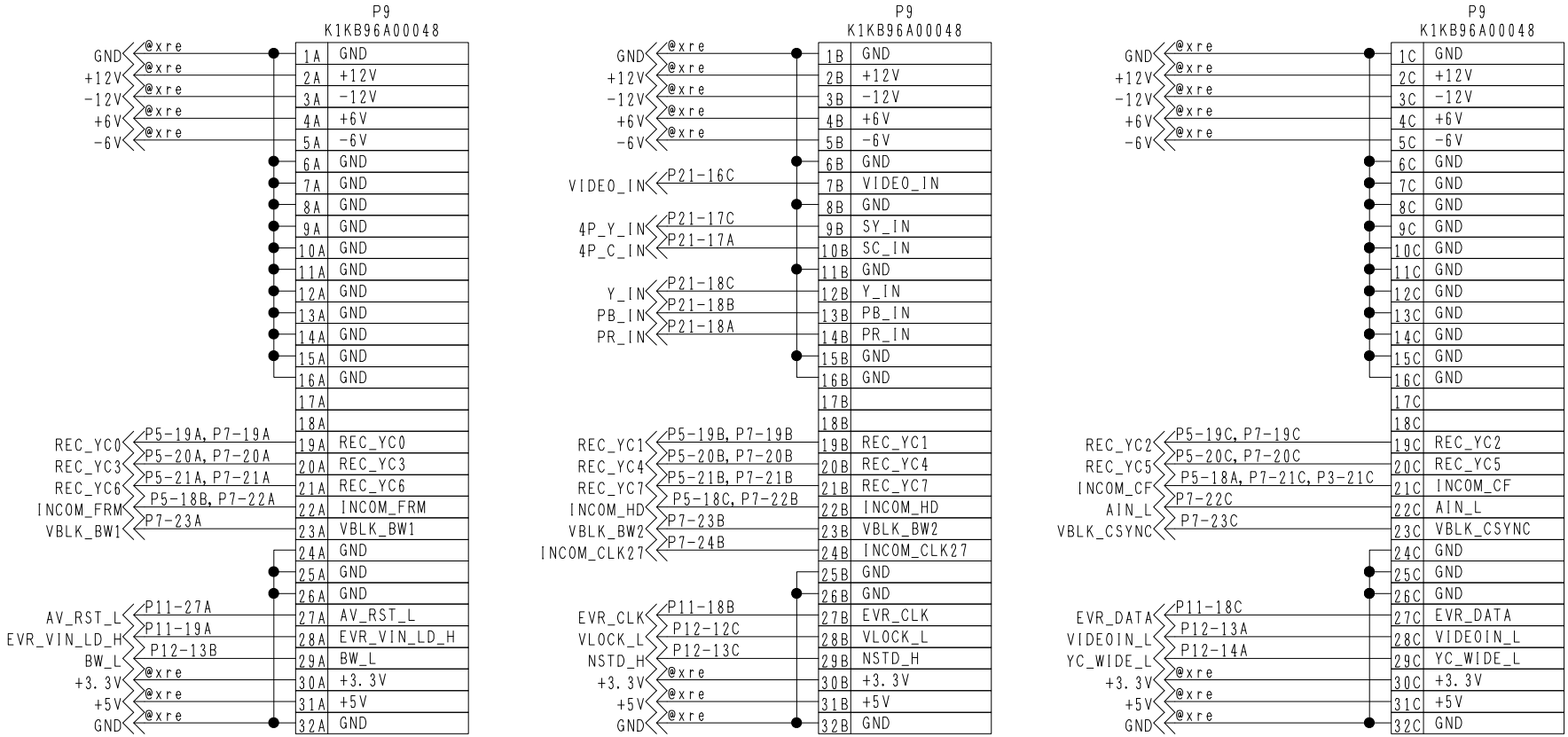
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15


P3
K1KB96A00048
P4
K1KB96A00048
F2 (V_OUT)
COMPONENT NAME
MOTHER
02/10
CIRCUIT BOARD NO.
VEP80C14A
DRAWING NO.
KR0Q24 (2/10)
SCM120

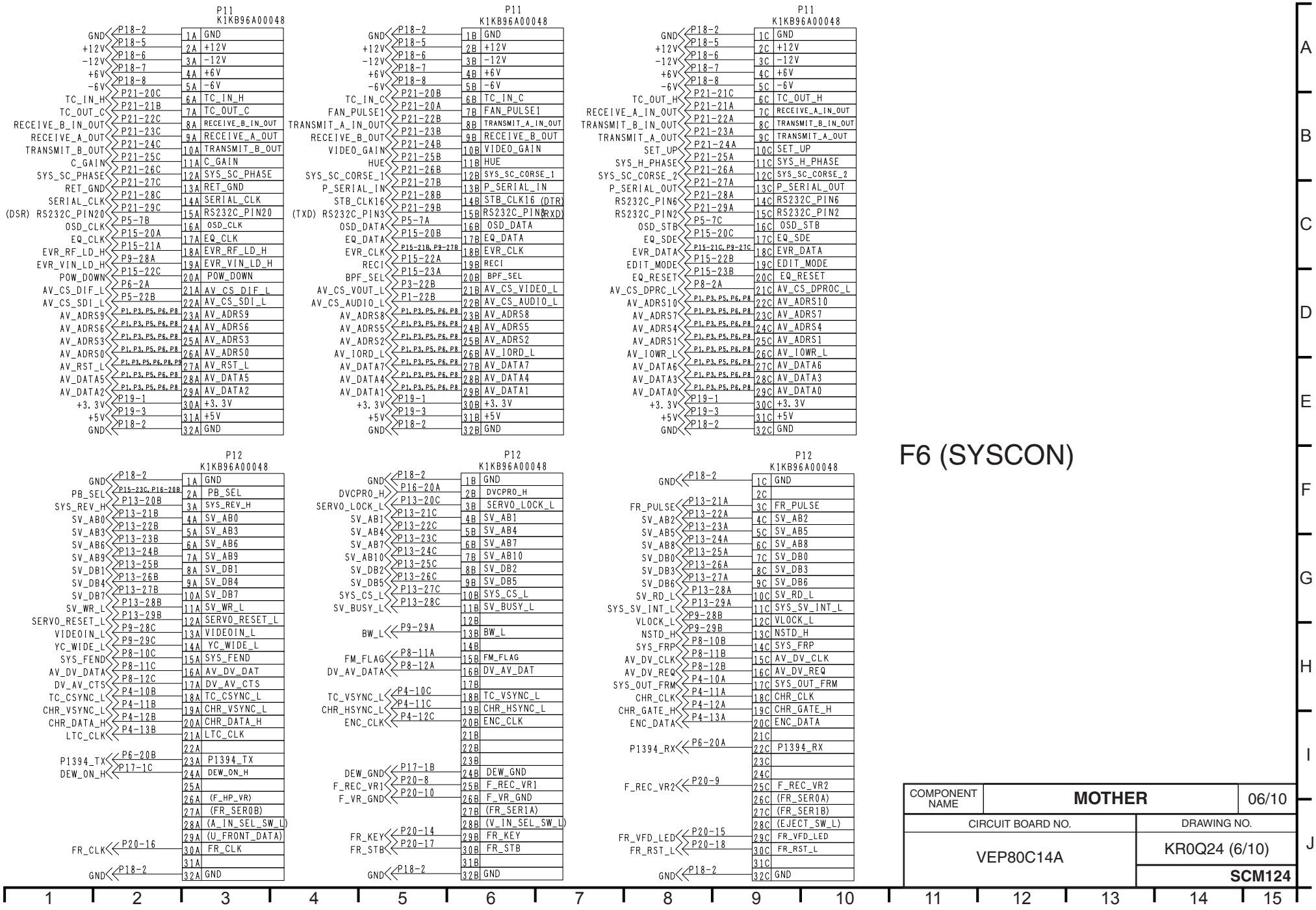

P5
K1KB96A00048
GND
+12V
-12V
+6V
-6V
OSD_DATA
DAUDCK
PB_DAUDCK
AIN_L
REF_CLK_SDI
SDI_YC2
SDI_YC5
SDI_YC8
INCOM_CF
REC_YC0
REC_YC3
REC_YC6
AV_ADRS9
AV_ADRS6
AV_ADRS3
AV_ADRS0
AV_RST_L
AV_DATA5
AV_DATA2
+3.3V
+5V
GND
P5
K1KB96A00048
GND
+12V
-12V
+6V
-6V
OSD_CLK
S_REC_AUD12
S_PB_AUD12
SDI_YC0
SDI_YC3
SDI_YC6
SDI_YC9
INCOM_FRM
REC_YC1
REC_YC4
REC_YC7
AV_CS_SDI_L
AV_ADRS8
AV_ADRS5
AV_ADRS2
AV_IORD_L
AV_DATA7
AV_DATA4
AV_DATA1
+3.3V
+5V
GND
P5
K1KB96A00048
GND
+12V
-12V
+6V
-6V
OSD_STB
S_REC_AUD34
S_PB_AUD34
SDI_YC1
SDI_YC4
SDI_YC7
REF_CF
INCOM_HD
REC_YC2
REC_YC5
SINCOM_CLK27
AV_ADRS10
AV_ADRS7
AV_ADRS4
AV_ADRS1
AV_IOWR_L
AV_DATA6
AV_DATA3
AV_DATA0
+3.3V
+5V
GND
F3A (SDI)
P6
K1KB96A00048
GND
AV_CS_DIF_L
AV_ADRS8
AV_ADRS5
AV_ADRS2
AV_IORD_L
AV_DATA7
AV_DATA4
AV_DATA1
SYS_OUT_FRM
P1394_RX
DIF_FRM
REC_DIF_BD0
REC_DIF_BD3
PB_DIF_BD0
PB_DIF_BD3
DV_DIF_DATA
REC_SYS_DATA
PB_SYS_CTL
+3.3V
+5V
GND
P6
K1KB96A00048
GND
AV_ADRS10
AV_ADRS7
AV_ADRS4
AV_ADRS1
AV_IOWR_L
AV_DATA6
AV_DATA3
AV_DATA0
SYS_FRP
P1394_TX
GND
REC_DIF_FRP
REC_DIF_BD1
PB_DIF_FRP
PB_DIF_BD1
DIF_DV_DATA
DV_DIF_RDV_L
REC_SYS_CTL
DIF_RSV1
+3.3V
+5V
GND
P6
K1KB96A00048
GND
AV_ADRS9
AV_ADRS6
AV_ADRS3
AV_ADRS0
AV_RST_L
AV_DATA5
AV_DATA2
SYS_FEND
DIF_CLK18
REC_DIF_SSP
REC_DIF_BD2
PB_DIF_SSP
PB_DIF_BD2
DIF_DV_CLK
DIF_DV_SEL_REC_L
PB_SYS_DATA
DIF_RSV2
+3.3V
+5V
GND
F3B (DIF)
COMPONENT NAME
MOTHER
03/10
CIRCUIT BOARD NO.
VEP80C14A
DRAWING NO.
KR0Q24 (3/10)
SCM121

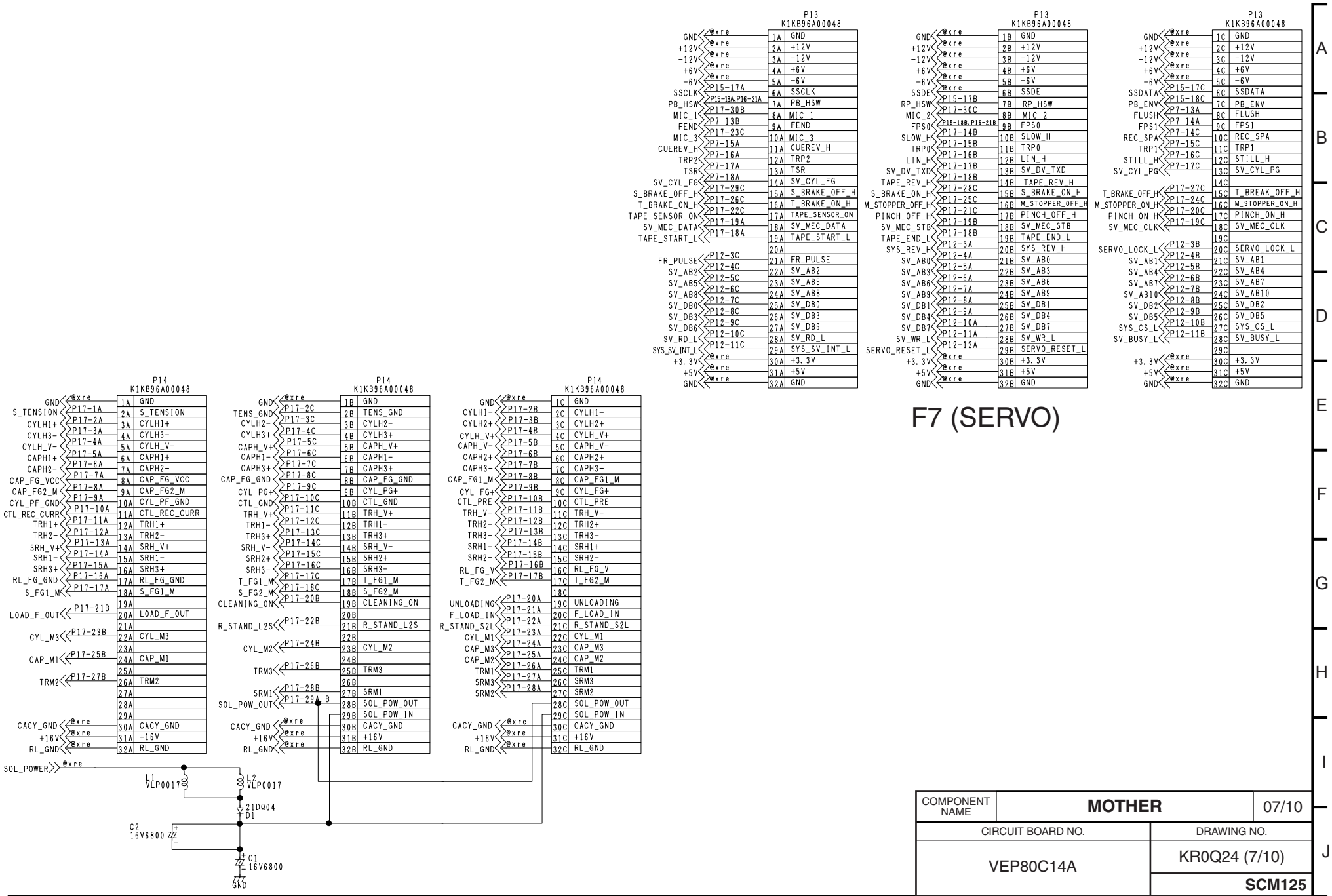

P7
K1KB96A00048
GND P18-2 1A GND
+12V P18-5 2A +12V
-12V P18-6 3A -12V
+6V P18-7 4A +6V
-6V P18-8 5A -6V
AES_GND P21-10A 6A D_IN/OUT_DATA12_G
7A GND
REC_CLK_P P15-8A 8A REC_CLK_P
RE_CTRL_2 P15-9B, P16-18B 9A RE_CTRL_2
RP_DAT_P P15-12A 10A RP_DAT_P
RP_CLK_N P15-13B 11A RP_CLK_N
PB_CLK_P P15-15A 12A PB_CLK_P
FLUSH P13-8C 13A FLUSH
FPS1 P13-9C 14A FPS1
CUEREV_H P13-11A 15A CUEREV_H
TRP2 P13-12A 16A TRP2
TSR P13-13A 17A TSR
SV_CYL_FG P13-14A 18A SV_CYL_FG
REC_YC0 P9-19A 19A REC_YC0
REC_YC3 P9-20A 20A REC_YC3
REC_YC6 P9-21A 21A REC_YC6
INCOM_FRM P9-22A 22A INCOM_FRM
VBLK_BW1 P9-23A 23A VBLK_BW1
GND P18-2 24A GND
SINCOM_CLK27 P5-21C 25A SINCOM_CLK27
S_REC_AUD34 P5-9C 26A S_REC_AUD34
S_PB_AUD34 P5-10C 27A S_PB_AUD34
WCK1 P1-14C 28A WCK1
DASDLR P1-15C 29A DASDLR
+3.3V P19-1 30A +3.3V
+5V P19-3 31A +5V
GND P18-2 32A GND
P7
K1KB96A00048
GND P18-2 1B GND
+12V P18-5 2B +12V
-12V P18-6 3B -12V
+6V P18-7 4B +6V
-6V P18-8 5B -6V
AES12_IN P21-10C 6B D_IN_DATA12_P
REC_DAT_P P15-7A 7B REC_DAT_P
REC_CLK_N P15-8B 8B REC_CLK_N
REC_CTRL_1 P15-10A 9B REC_CTRL_1
RP_DAT_N P15-12B 10B RP_DAT_N
PB_DAT_P P15-14A 11B PB_DAT_P
PB_CLK_N P15-15B 12B PB_CLK_N
FEND P13-9A 13B FEND
SLOW_H P13-10B 14B SLOW_H
TRP0 P13-11B 15B TRP0
LIN_H P13-12B 16B LIN_H
SV_DV_TXD P13-13B 17B SV_DV_TXD
TAPE_REV_H P13-14B 18B TAPE_REV_H
REC_YC1 P9-19B 19B REC_YC1
REC_YC4 P9-20B 20B REC_YC4
REC_YC7 P9-21B 21B REC_YC7
INCOM_HD P9-22B 22B INCOM_HD
VBLK_BW2 P9-23B 23B VBLK_BW2
INCOM_CLK27 P9-24B 24B INCOM_CLK27
DAUDCK P5-9A 25B DAUDCK
PB_DAUDCK P5-10A 26B PB_DAUDCK
MCK1 P1-14A 27B MCK1
ADSD12 P1-15A 28B ADSD12
CUE_MET_DATA P1-16A 29B CUE_MET_DATA
+3.3V P19-1 30B +3.3V
+5V P19-3 31B +5V
GND P18-2 32B GND
P7
K1KB96A00048
GND P18-2 1C GND
+12V P18-5 2C +12V
-12V P18-6 3C -12V
+6V P18-7 4C +6V
-6V P18-8 5C -6V
AES12_OUT P21-10B 6C D_OUT_DATA12_P
REC_DAT_N P15-7B 7C REC_DAT_N
RE_CTRL_1 P15-9A, P16-18A 8C RE_CTRL_1
REC_CTRL_2 P15-10B 9C REC_CTRL_2
RP_CLK_P P15-13A 10C RP_CLK_P
PB_DAT_N P15-14B 11C PB_DAT_N
12C
FPS0 P13-9B 13C FPS0
REC_SPA P13-10C, P15-16C 14C REC_SPA
TRP1 P13-11C 15C TRP1
STILL_H P13-12C 16C STILL_H
SV_CYL_PG P13-13C 17C SV_CYL_PG
GND P18-2 18C GND
REC_YC2 P9-19C 19C REC_YC2
REC_YC5 P9-20C 20C REC_YC5
INCOM_CF P9-21C 21C INCOM_CF
AIN_L P5-12A, P9-22C 22C AIN_L
VBLK_CSYNC P9-23C 23C VBLK_CSYNC
24C
S_REC_AUD12 P5-9B 25C S_REC_AUD12
S_PB_AUD12 P5-10B 26C S_PB_AUD12
BCK1 P1-14B 27C BCK1
DASD12 P1-15B 28C DASD12
CUE_MIX_DATA P1-16B 29C CUE_MIX_DATA
+3.3V P19-1 30C +3.3V
+5V P19-3 31C +5V
GND P18-2 32C GND
P8
K1KB96A00048
GND P18-2 1A GND
AV_CS_DPRC_L P11-21C 2A AV_CS_DPRC_L
AV_ADRS8 P11-23B 3A AV_ADRS8
AV_ADRS5 P11-24B 4A AV_ADRS5
AV_ADRS2 P11-25B 5A AV_ADRS2
AV_IORD_L P11-26B 6A AV_IORD_L
AV_DATA7 P11-27B 7A AV_DATA7
AV_DATA4 P11-28B 8A AV_DATA4
AV_DATA1 P11-29B 9A AV_DATA1
SYS_OUT_FRM P2-10A, P12-17C 10A SYS_OUT_FRM
FM_FLAG P12-15B 11A FM_FLAG
DV_AV_DATA P12-16B 12A DV_AV_DATA
13A
EE_YC0 P4-14A 14A EE_YC0
EE_YC3 P4-15A 15A EE_YC3
EE_YC6 P4-16A 16A EE_YC6
REF_CLK27 P4-17A 17A REF_CLK27
REF_HD P4-18A 18A REF_HD
PB_YC2 P4-19A 19A PB_YC2
PB_YC5 P4-20A 20A PB_YC5
PB_FRM P4-21A 21A PB_FRM
DIF_FRM P6-22A 22A DIF_FRM
REC_DIF_BD0 P6-23A 23A REC_DIF_BD0
REC_DIF_BD3 P6-24A 24A REC_DIF_BD3
PB_DIF_BD0 P6-25A 25A PB_DIF_BD0
PB_DIF_BD3 P6-26A 26A PB_DIF_BD3
DV_DIF_DATA P6-27A 27A DV_DIF_DATA
REC_SYS_DATA P6-28A 28A REC_SYS_DATA
PB_SYS_CTL P6-29A 29A PB_SYS_CTL
30A
31A
GND P18-2 32A GND
P8
K1KB96A00048
GND P18-2 1B GND
AV_ADRS10 P11-22C 2B AV_ADRS10
AV_ADRS7 P11-23C 3B AV_ADRS7
AV_ADRS4 P11-24C 4B AV_ADRS4
AV_ADRS1 P11-25C 5B AV_ADRS1
AV_IOWR_L P11-26C 6B AV_IOWR_L
AV_DATA6 P11-27C 7B AV_DATA6
AV_DATA3 P11-28C 8B AV_DATA3
AV_DATA0 P11-29C 9B AV_DATA0
SYS_FRP P12-14C, P6-10B 10B SYS_FRP
AV_DV_CLK P12-15C 11B AV_DV_CLK
AV_DV_REQ P12-16C 12B AV_DV_REQ
13B
EE_YC1 P4-14B 14B EE_YC1
EE_YC4 P4-15B 15B EE_YC4
EE_YC7 P4-16B 16B EE_YC7
REF_CF P4-17B 17B REF_CF
PB_YC0 P4-18B 18B PB_YC0
PB_YC3 P4-19B 19B PB_YC3
PB_YC6 P4-20B 20B PB_YC6
GND P18-2 21B GND
REC_DIF_FRP P6-22B 22B REC_DIF_FRP
REC_DIF_BD1 P6-23B 23B REC_DIF_BD1
PB_DIF_FRP P6-24B 24B PB_DIF_FRP
PB_DIF_BD1 P6-25B 25B PB_DIF_BD1
DIF_DV_DATA P6-26B 26B DIF_DV_DATA
DV_DIF_RDV_L P6-27B 27B DV_DIF_RDV_L
REC_SYS_CTL P6-28B 28B REC_SYS_CTL
DIF_RSV1 P6-29B 29B DIF_RSV1
30B (ISP_TCK)
31B (ISP_TDI)
GND P18-2 32B GND
P8
K1KB96A00048
GND P18-2 1C GND
AV_ADRS9 P11-23A 2C AV_ADRS9
AV_ADRS6 P11-24A 3C AV_ADRS6
AV_ADRS3 P11-25A 4C AV_ADRS3
AV_ADRS0 P11-26A 5C AV_ADRS0
AV_RST_L P11-27A 6C
AV_DATA5 P11-28A 7C AV_DATA5
AV_DATA2 P11-29A 8C AV_DATA2
9C
SYS_FEND P12-15A, P6-10C 10C SYS_FEND
AV_DV_DATA P12-16A 11C AV_DV_DATA
DV_AV_CTS P12-17A 12C DV_AV_CTS
13C
EE_YC2 P4-14C 14C EE_YC2
EE_YC5 P4-15C 15C EE_YC5
GND P18-2 16C GND
REF_FRM P4-17C 17C REF_FRM
PB_YC1 P4-18C 18C PB_YC1
PB_YC4 P4-19C 19C PB_YC4
PB_YC7 P4-20C 20C PB_YC7
DIF_CLK18 P6-21C 21C DIF_CLK18
REC_DIF_SSP P6-22C 22C REC_DIF_SSP
REC_DIF_BD2 P6-23C 23C REC_DIF_BD2
PB_DIF_SSP P6-24C 24C PB_DIF_SSP
PB_DIF_BD2 P6-25C 25C PB_DIF_BD2
DIF_DV_CLK P6-26C 26C DIF_DV_CLK
DIF_DV_SEL_REC_L P6-27C 27C DIF_DV_SEL_REC_L
PB_SYS_DATA P6-28C 28C PB_SYS_DATA
DIF_RSV2 P6-29C 29C DIF_RSV2
30C (ISP_TMS)
31C (ISP_TDO)
GND P18-2 32C GND
F4 (D_PROC)
COMPONENT NAME
MOTHER
04/10
CIRCUIT BOARD NO.
VEP80C14A
DRAWING NO.
KR0Q24 (4/10)
SCM122
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

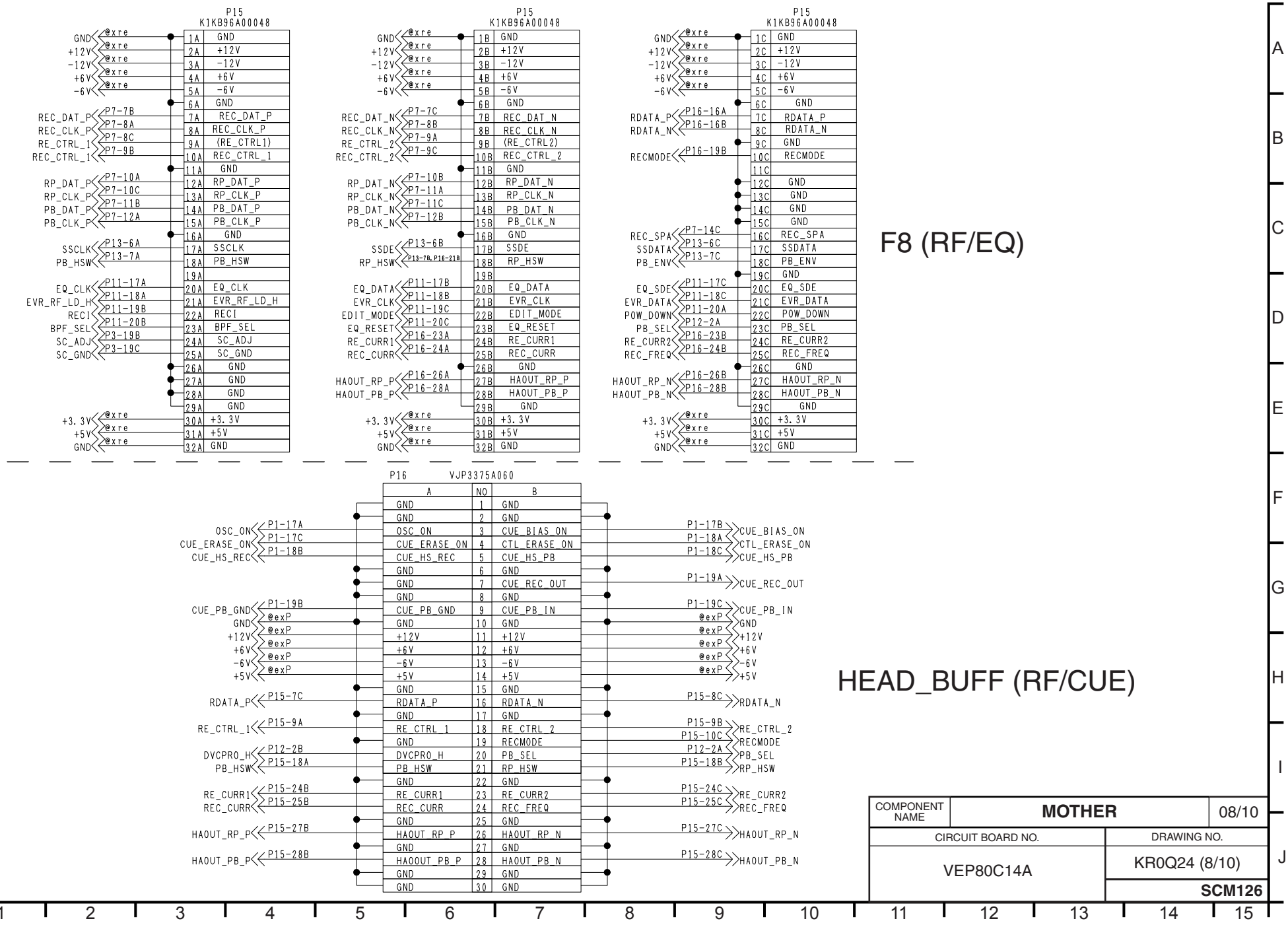
F5 (V_IN)



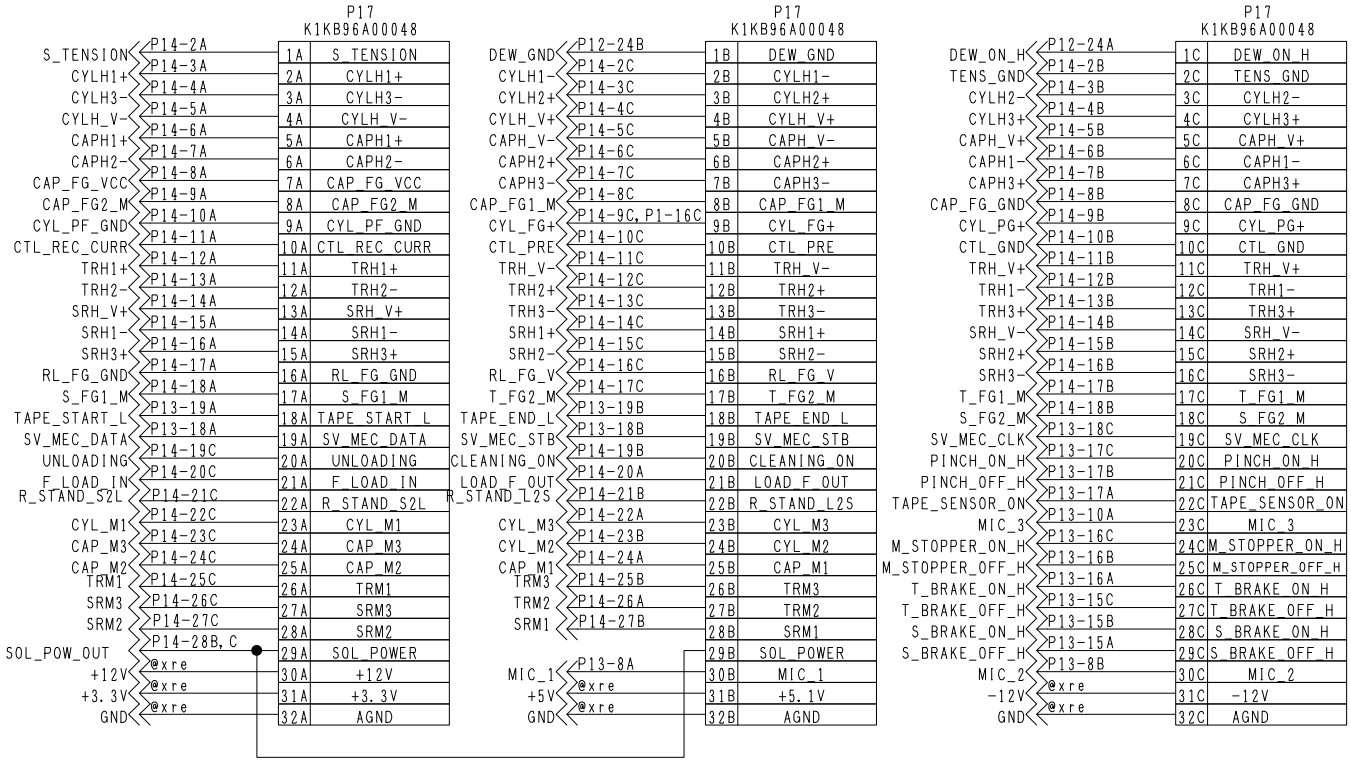
COMPONENT NAME	MOTHER	05/10
CIRCUIT BOARD NO.		DRAWING NO.
VEP80C14A		KR0Q24 (5/10)
		SCM123


P11
K1KB96A00048
GND P18-2 1A GND
+12V P18-5 2A +12V
-12V P18-6 3A -12V
+6V P18-7 4A +6V
-6V P18-8 5A -6V
TC_IN_H P21-20C 6A TC_IN_H
TC_OUT_C P21-21B 7A TC_OUT_C
RECEIVE_B_IN_OUT P21-22C 8A RECEIVE_B_IN_OUT
RECEIVE_A_OUT P21-23C 9A RECEIVE_A_OUT
TRANSMIT_B_OUT P21-24C 10A TRANSMIT_B_OUT
C_GAIN P21-25C 11A C_GAIN
SYS_SC_PHASE P21-26C 12A SYS_SC_PHASE
RET_GND P21-27C 13A RET_GND
SERIAL_CLK P21-28C 14A SERIAL_CLK
(DSR) RS232C_PIN20 P21-29C 15A RS232C_PIN20
OSD_CLK P5-7B 16A OSD_CLK
EQ_CLK P15-20A 17A EQ_CLK
EVR_RF_LD_H P15-21A 18A EVR_RF_LD_H
EVR_VIN_LD_H P9-28A 19A EVR_VIN_LD_H
POW_DOWN P15-22C 20A POW_DOWN
AV_CS_DIF_L P6-2A 21A AV_CS_DIF_L
AV_CS_SDI_L P5-22B 22A AV_CS_SDI_L
AV_ADRS9 P1, P3, P5, P6, P8 23A AV_ADRS9
AV_ADRS6 P1, P3, P5, P6, P8 24A AV_ADRS6
AV_ADRS3 P1, P3, P5, P6, P8 25A AV_ADRS3
AV_ADRS0 P1, P3, P5, P6, P8 26A AV_ADRS0
AV_RST_L P1, P3, P5, P6, P8, P9 27A AV_RST_L
AV_DATA5 P1, P3, P5, P6, P8 28A AV_DATA5
AV_DATA2 P1, P3, P5, P6, P8 29A AV_DATA2
+3.3V P19-1 30A +3.3V
+5V P19-3 31A +5V
GND P18-2 32A GND
P11
K1KB96A00048
GND P18-2 1B GND
+12V P18-5 2B +12V
-12V P18-6 3B -12V
+6V P18-7 4B +6V
-6V P18-8 5B -6V
TC_IN_C P21-20B 6B TC_IN_C
FAN_PULSE1 P21-20A 7B FAN_PULSE1
TRANSMIT_A_IN_OUT P21-22B 8B TRANSMIT_A_IN_OUT
RECEIVE_B_OUT P21-23B 9B RECEIVE_B_OUT
VIDEO_GAIN P21-24B 10B VIDEO_GAIN
HUE P21-25B 11B HUE
SYS_SC_CORSE_1 P21-26B 12B SYS_SC_CORSE_1
P_SERIAL_IN P21-27B 13B P_SERIAL_IN
STB_CLK16 P21-28B 14B STB_CLK16 (DTR)
(TXD) RS232C_PIN3 P21-29B 15B RS232C_PIN3 (RXD)
OSD_DATA P5-7A 16B OSD_DATA
EQ_DATA P15-20B 17B EQ_DATA
EVR_CLK P15-21B, P9-27B 18B EVR_CLK
RECI P15-22A 19B RECI
BPF_SEL P15-23A 20B BPF_SEL
AV_CS_VOUT_L P3-22B 21B AV_CS_VIDEO_L
AV_CS_AUDIO_L P1-22B 22B AV_CS_AUDIO_L
AV_ADRS8 P1, P3, P5, P6, P8 23B AV_ADRS8
AV_ADRS5 P1, P3, P5, P6, P8 24B AV_ADRS5
AV_ADRS2 P1, P3, P5, P6, P8 25B AV_ADRS2
AV_IORD_L P1, P3, P5, P6, P8 26B AV_IORD_L
AV_DATA7 P1, P3, P5, P6, P8 27B AV_DATA7
AV_DATA4 P1, P3, P5, P6, P8 28B AV_DATA4
AV_DATA1 P1, P3, P5, P6, P8 29B AV_DATA1
+3.3V P19-1 30B +3.3V
+5V P19-3 31B +5V
GND P18-2 32B GND
P11
K1KB96A00048
GND P18-2 1C GND
+12V P18-5 2C +12V
-12V P18-6 3C -12V
+6V P18-7 4C +6V
-6V P18-8 5C -6V
TC_OUT_H P21-21C 6C TC_OUT_H
RECEIVE_A_IN_OUT P21-21A 7C RECEIVE_A_IN_OUT
TRANSMIT_B_IN_OUT P21-22A 8C TRANSMIT_B_IN_OUT
TRANSMIT_A_OUT P21-23A 9C TRANSMIT_A_OUT
SET_UP P21-24A 10C SET_UP
SYS_H_PHASE P21-25A 11C SYS_H_PHASE
SYS_SC_CORSE_2 P21-26A 12C SYS_SC_CORSE_2
P_SERIAL_OUT P21-27A 13C P_SERIAL_OUT
RS232C_PIN6 P21-28A 14C RS232C_PIN6
RS232C_PIN2 P21-29A 15C RS232C_PIN2
OSD_STB P5-7C 16C OSD_STB
EQ_SDE P15-20C 17C EQ_SDE
EVR_DATA P15-21C, P9-27C 18C EVR_DATA
EDIT_MODE P15-22B 19C EDIT_MODE
EQ_RESET P15-23B 20C EQ_RESET
AV_CS_DPROC_L P8-2A 21C AV_CS_DPROC_L
AV_ADRS10 P1, P3, P5, P6, P8 22C AV_ADRS10
AV_ADRS7 P1, P3, P5, P6, P8 23C AV_ADRS7
AV_ADRS4 P1, P3, P5, P6, P8 24C AV_ADRS4
AV_ADRS1 P1, P3, P5, P6, P8 25C AV_ADRS1
AV_IOWR_L P1, P3, P5, P6, P8 26C AV_IOWR_L
AV_DATA6 P1, P3, P5, P6, P8 27C AV_DATA6
AV_DATA3 P1, P3, P5, P6, P8 28C AV_DATA3
AV_DATA0 P1, P3, P5, P6, P8 29C AV_DATA0
+3.3V P19-1 30C +3.3V
+5V P19-3 31C +5V
GND P18-2 32C GND
P12
K1KB96A00048
GND P18-2 1A GND
PB_SEL P15-23C, P16-20B 2A PB_SEL
SYS_REV_H P13-20B 3A SYS_REV_H
SV_AB0 P13-21B 4A SV_AB0
SV_AB3 P13-22B 5A SV_AB3
SV_AB6 P13-23B 6A SV_AB6
SV_AB9 P13-24B 7A SV_AB9
SV_DB1 P13-25B 8A SV_DB1
SV_DB4 P13-26B 9A SV_DB4
SV_DB7 P13-27B 10A SV_DB7
SV_WR_L P13-28B 11A SV_WR_L
SERVO_RESET_L P13-29B 12A SERVO_RESET_L
VIDEOIN_L P9-28C 13A VIDEOIN_L
YC_WIDE_L P9-29C 14A YC_WIDE_L
SYS_FEND P8-10C 15A SYS_FEND
AV_DV_DATA P8-11C 16A AV_DV_DAT
DV_AV_CTS P8-12C 17A DV_AV_CTS
TC_CSYNC_L P4-10B 18A TC_CSYNC_L
CHR_VSYNC_L P4-11B 19A CHR_VSYNC_L
CHR_DATA_H P4-12B 20A CHR_DATA_H
LTC_CLK P4-13B 21A LTC_CLK
22A
P1394_TX P6-20B 23A P1394_TX
DEW_ON_H P17-1C 24A DEW_ON_H
25A
26A (F_HP_VR)
27A (FR_SER0B)
28A (A_IN_SEL_SW_L)
FR_CLK P20-16 29A (U_FRONT_DATA)
30A FR_CLK
31A
GND P18-2 32A GND
P12
K1KB96A00048
GND P18-2 1B GND
DVCPRO_H P16-20A 2B DVCPRO_H
SERVO_LOCK_L P13-20C 3B SERVO_LOCK_L
SV_AB1 P13-21C 4B SV_AB1
SV_AB4 P13-22C 5B SV_AB4
SV_AB7 P13-23C 6B SV_AB7
SV_AB10 P13-24C 7B SV_AB10
SV_DB2 P13-25C 8B SV_DB2
SV_DB5 P13-26C 9B SV_DB5
SYS_CS_L P13-27C 10B SYS_CS_L
SV_BUSY_L P13-28C 11B SV_BUSY_L
12B
BW_L P9-29A 13B BW_L
14B
FM_FLAG P8-11A 15B FM_FLAG
DV_AV_DATA P8-12A 16B DV_AV_DAT
17B
TC_VSYNC_L P4-10C 18B TC_VSYNC_L
CHR_HSYNC_L P4-11C 19B CHR_HSYNC_L
ENC_CLK P4-12C 20B ENC_CLK
21B
22B
23B
DEW_GND P17-1B 24B DEW_GND
F_REC_VR1 P20-8 25B F_REC_VR1
F_VR_GND P20-10 26B F_VR_GND
27B (FR_SER1A)
28B (V_IN_SEL_SW_L)
FR_KEY P20-14 29B FR_KEY
FR_STB P20-17 30B FR_STB
31B
GND P18-2 32B GND
P12
K1KB96A00048
GND P18-2 1C GND
2C
FR_PULSE P13-21A 3C FR_PULSE
SV_AB2 P13-22A 4C SV_AB2
SV_AB5 P13-23A 5C SV_AB5
SV_AB8 P13-24A 6C SV_AB8
SV_DB0 P13-25A 7C SV_DB0
SV_DB3 P13-26A 8C SV_DB3
SV_DB6 P13-27A 9C SV_DB6
SV_RD_L P13-28A 10C SV_RD_L
SYS_SV_INT_L P13-29A 11C SYS_SV_INT_L
VLOCK_L P9-28B 12C VLOCK_L
NSTD_H P9-29B 13C NSTD_H
SYS_FRP P8-10B 14C SYS_FRP
AV_DV_CLK P8-11B 15C AV_DV_CLK
AV_DV_REQ P8-12B 16C AV_DV_REQ
SYS_OUT_FRM P4-10A 17C SYS_OUT_FRM
CHR_CLK P4-11A 18C CHR_CLK
CHR_GATE_H P4-12A 19C CHR_GATE_H
ENC_DATA P4-13A 20C ENC_DATA
21C
P1394_RX P6-20A 22C P1394_RX
23C
24C
F_REC_VR2 P20-9 25C F_REC_VR2
26C (FR_SER0A)
27C (FR_SER1B)
28C (EJECT_SW_L)
FR_VFD_LED P20-15 29C FR_VFD_LED
FR_RST_L P20-18 30C FR_RST_L
31C
GND P18-2 32C GND
F6 (SYSCON)
COMPONENT NAME
MOTHER
06/10
CIRCUIT BOARD NO.
VEP80C14A
DRAWING NO.
KR0Q24 (6/10)
SCM124
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

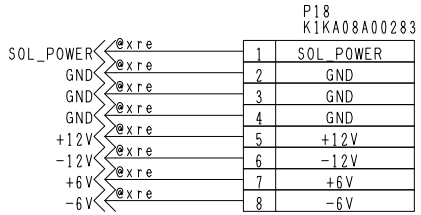

P13
K1KB96A00048
GND
+12V
-12V
+6V
-6V
SSCLK
PB_HSW
MIC_1
FEND
MIC_3
CUEREV_H
TRP2
TSR
SV_CYL_FG
S_BRAKE_OFF_H
T_BRAKE_ON_H
TAPE_SENSOR_ON
SV_MEC_DATA
TAPE_START_L
FR_PULSE
SV_AB2
SV_AB5
SV_AB8
SV_DB0
SV_DB3
SV_DB6
SV_RD_L
SYS_SV_INT_L
+3.3V
+5V
GND
P13
K1KB96A00048
GND
+12V
-12V
+6V
-6V
SSDE
RP_HSW
MIC_2
FPS0
SLOW_H
TRP0
LIN_H
SV_DV_TXD
TAPE_REV_H
S_BRAKE_ON_H
M_STOPPER_OFF_H
PINCH_OFF_H
SV_MEC_STB
TAPE_END_L
SYS_REV_H
SV_AB0
SV_AB3
SV_AB6
SV_AB9
SV_DB1
SV_DB4
SV_DB7
SV_WR_L
SERVO_RESET_L
+3.3V
+5V
GND
P13
K1KB96A00048
GND
+12V
-12V
+6V
-6V
SSDATA
PB_ENV
FLUSH
FPS1
REC_SPA
TRP1
STILL_H
SV_CYL_PG
T_BRAKE_OFF_H
M_STOPPER_ON_H
PINCH_ON_H
SV_MEC_CLK
SERVO_LOCK_L
SV_AB1
SV_AB4
SV_AB7
SV_AB10
SV_DB2
SV_DB5
SYS_CS_L
SV_BUSY_L
+3.3V
+5V
GND
F7 (SERVO)
P14
K1KB96A00048
GND
S_TENSION
CYLH1+
CYLH3-
CYLH_V-
CAPH1+
CAPH2-
CAP_FG_VCC
CAP_FG2_M
CYL_PF_GND
CTL_REC_CURR
TRH1+
TRH2-
SRH_V+
SRH1-
SRH3+
RL_FG_GND
S_FG1_M
LOAD_F_OUT
CYL_M3
CAP_M1
TRM2
CACY_GND
+16V
RL_GND
P14
K1KB96A00048
GND
TENS_GND
CYLH2-
CYLH3+
CAPH_V+
CAPH1-
CAPH3+
CAP_FG_GND
CYL_PG+
CTL_GND
TRH_V+
TRH1-
TRH3+
SRH_V-
SRH2+
SRH3-
T_FG1_M
S_FG2_M
CLEANING_ON
R_STAND_L2S
CYL_M2
TRM3
SRM1
SOL_POW_OUT
SOL_POW_IN
CACY_GND
+16V
RL_GND
P14
K1KB96A00048
GND
CYLH1-
CYLH2+
CYLH_V+
CAPH_V-
CAPH2+
CAPH3-
CAP_FG1_M
CYL_FG+
CTL_PRE
TRH_V-
TRH2+
TRH3-
SRH1+
SRH2-
RL_FG_V
T_FG2_M
UNLOADING
F_LOAD_IN
R_STAND_S2L
CYL_M1
CAP_M3
CAP_M2
TRM1
SRM3
SRM2
SOL_POW_OUT
SOL_POW_IN
CACY_GND
+16V
RL_GND
SOL_POWER
L1
VLP0017
L2
VLP0017
21DQ04
D1
C2
16V6800
C1
16V6800
GND
COMPONENT NAME
MOTHER
07/10
CIRCUIT BOARD NO.
VEP80C14A
DRAWING NO.
KR0Q24 (7/10)
SCM125
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

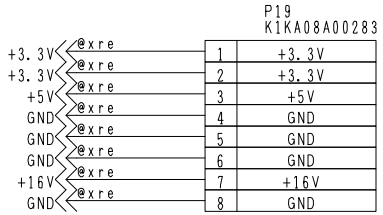

P15
K1KB96A00048
GND @xre 1A GND
+12V @xre 2A +12V
-12V @xre 3A -12V
+6V @xre 4A +6V
-6V @xre 5A -6V
6A GND
REC_DAT_P P7-7B 7A REC_DAT_P
REC_CLK_P P7-8A 8A REC_CLK_P
RE_CTRL_1 P7-8C 9A (RE_CTRL1)
REC_CTRL_1 P7-9B 10A REC_CTRL_1
11A GND
RP_DAT_P P7-10A 12A RP_DAT_P
RP_CLK_P P7-10C 13A RP_CLK_P
PB_DAT_P P7-11B 14A PB_DAT_P
PB_CLK_P P7-12A 15A PB_CLK_P
16A GND
SSCLK P13-6A 17A SSCLK
PB_HSW P13-7A 18A PB_HSW
19A
EQ_CLK P11-17A 20A EQ_CLK
EVR_RF_LD_H P11-18A 21A EVR_RF_LD_H
RECI P11-19B 22A RECI
BPF_SEL P11-20B 23A BPF_SEL
SC_ADJ P3-19B 24A SC_ADJ
SC_GND P3-19C 25A SC_GND
26A GND
27A GND
28A GND
29A GND
+3.3V @xre 30A +3.3V
+5V @xre 31A +5V
GND @xre 32A GND
P15
K1KB96A00048
GND @xre 1B GND
+12V @xre 2B +12V
-12V @xre 3B -12V
+6V @xre 4B +6V
-6V @xre 5B -6V
6B GND
REC_DAT_N P7-7C 7B REC_DAT_N
REC_CLK_N P7-8B 8B REC_CLK_N
RE_CTRL_2 P7-9A 9B (RE_CTRL2)
REC_CTRL_2 P7-9C 10B REC_CTRL_2
11B GND
RP_DAT_N P7-10B 12B RP_DAT_N
RP_CLK_N P7-11A 13B RP_CLK_N
PB_DAT_N P7-11C 14B PB_DAT_N
PB_CLK_N P7-12B 15B PB_CLK_N
16B GND
SSDE P13-6B 17B SSDE
RP_HSW P13-7B, P16-21B 18B RP_HSW
19B
EQ_DATA P11-17B 20B EQ_DATA
EVR_CLK P11-18B 21B EVR_CLK
EDIT_MODE P11-19C 22B EDIT_MODE
EQ_RESET P11-20C 23B EQ_RESET
RE_CURR1 P16-23A 24B RE_CURR1
REC_CURR P16-24A 25B REC_CURR
26B GND
HAOUT_RP_P P16-26A 27B HAOUT_RP_P
HAOUT_PB_P P16-28A 28B HAOUT_PB_P
29B GND
+3.3V @xre 30B +3.3V
+5V @xre 31B +5V
GND @xre 32B GND
P15
K1KB96A00048
GND @xre 1C GND
+12V @xre 2C +12V
-12V @xre 3C -12V
+6V @xre 4C +6V
-6V @xre 5C -6V
6C GND
RDATA_P P16-16A 7C RDATA_P
RDATA_N P16-16B 8C RDATA_N
9C GND
RECMODE P16-19B 10C RECMODE
11C
12C GND
13C GND
14C GND
15C GND
REC_SPA P7-14C 16C REC_SPA
SSDATA P13-6C 17C SSDATA
PB_ENV P13-7C 18C PB_ENV
19C GND
EQ_SDE P11-17C 20C EQ_SDE
EVR_DATA P11-18C 21C EVR_DATA
POW_DOWN P11-20A 22C POW_DOWN
PB_SEL P12-2A 23C PB_SEL
RE_CURR2 P16-23B 24C RE_CURR2
REC_FREQ P16-24B 25C REC_FREQ
26C GND
HAOUT_RP_N P16-26B 27C HAOUT_RP_N
HAOUT_PB_N P16-28B 28C HAOUT_PB_N
29C GND
+3.3V @xre 30C +3.3V
+5V @xre 31C +5V
GND @xre 32C GND
F8 (RF/EQ)
P16 VJP3375A060
A NO B
GND 1 GND
GND 2 GND
OSC_ON P1-17A 3 CUE_BIAS_ON P1-17B CUE_BIAS_ON
CUE_ERASE_ON P1-17C 4 CTL_ERASE_ON P1-18A CTL_ERASE_ON
CUE_HS_REC P1-18B 5 CUE_HS_PB P1-18C CUE_HS_PB
GND 6 GND
GND 7 CUE_REC_OUT P1-19A CUE_REC_OUT
GND 8 GND
CUE_PB_GND P1-19B 9 CUE_PB_IN P1-19C CUE_PB_IN
GND @exP 10 GND @exP GND
+12V @exP 11 +12V @exP +12V
+6V @exP 12 +6V @exP +6V
-6V @exP 13 -6V @exP -6V
+5V @exP 14 +5V @exP +5V
GND 15 GND
RDATA_P P15-7C 16 RDATA_N P15-8C RDATA_N
GND 17 GND
RE_CTRL_1 P15-9A 18 RE_CTRL_2 P15-9B RE_CTRL_2
GND 19 RECMODE P15-10C RECMODE
DVCPRO_H P12-2B 20 PB_SEL P12-2A PB_SEL
PB_HSW P15-18A 21 RP_HSW P15-18B RP_HSW
GND 22 GND
RE_CURR1 P15-24B 23 RE_CURR2 P15-24C RE_CURR2
REC_CURR P15-25B 24 REC_FREQ P15-25C REC_FREQ
GND 25 GND
HAOUT_RP_P P15-27B 26 HAOUT_RP_N P15-27C HAOUT_RP_N
GND 27 GND
HAOUT_PB_P P15-28B 28 HAOUT_PB_N P15-28C HAOUT_PB_N
GND 29 GND
GND 30 GND
HEAD_BUFF (RF/CUE)
COMPONENT NAME
MOTHER
08/10
CIRCUIT BOARD NO.
VEP80C14A
DRAWING NO.
KR0Q24 (8/10)
SCM126
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

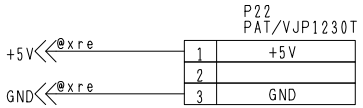
MECHA_IF

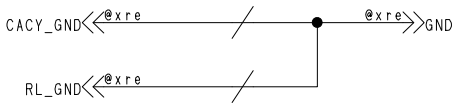


POWER





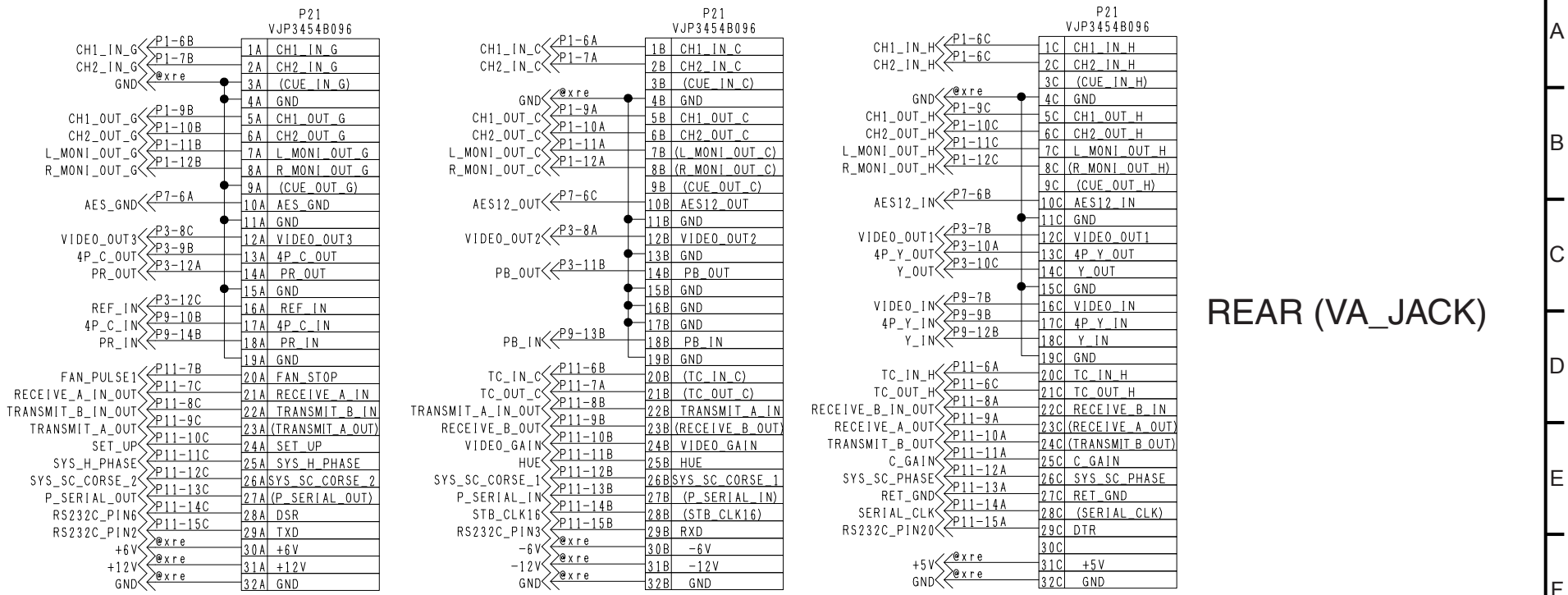




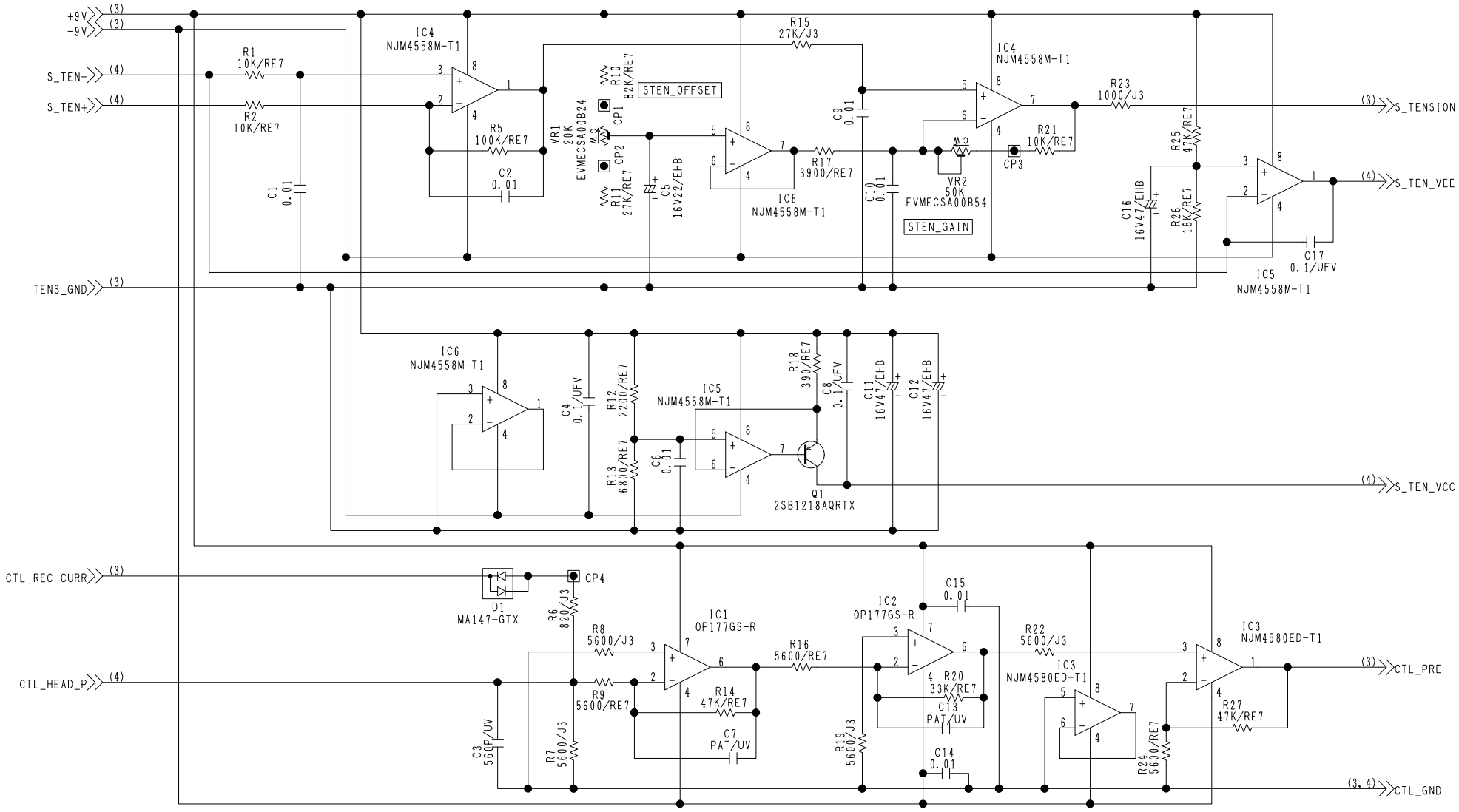
COMPONENT NAME	MOTHER	09/10
CIRCUIT BOARD NO.		DRAWING NO.
VEP80C14A		KR0Q24 (9/10)
		SCM127

A B C D E F G H I J

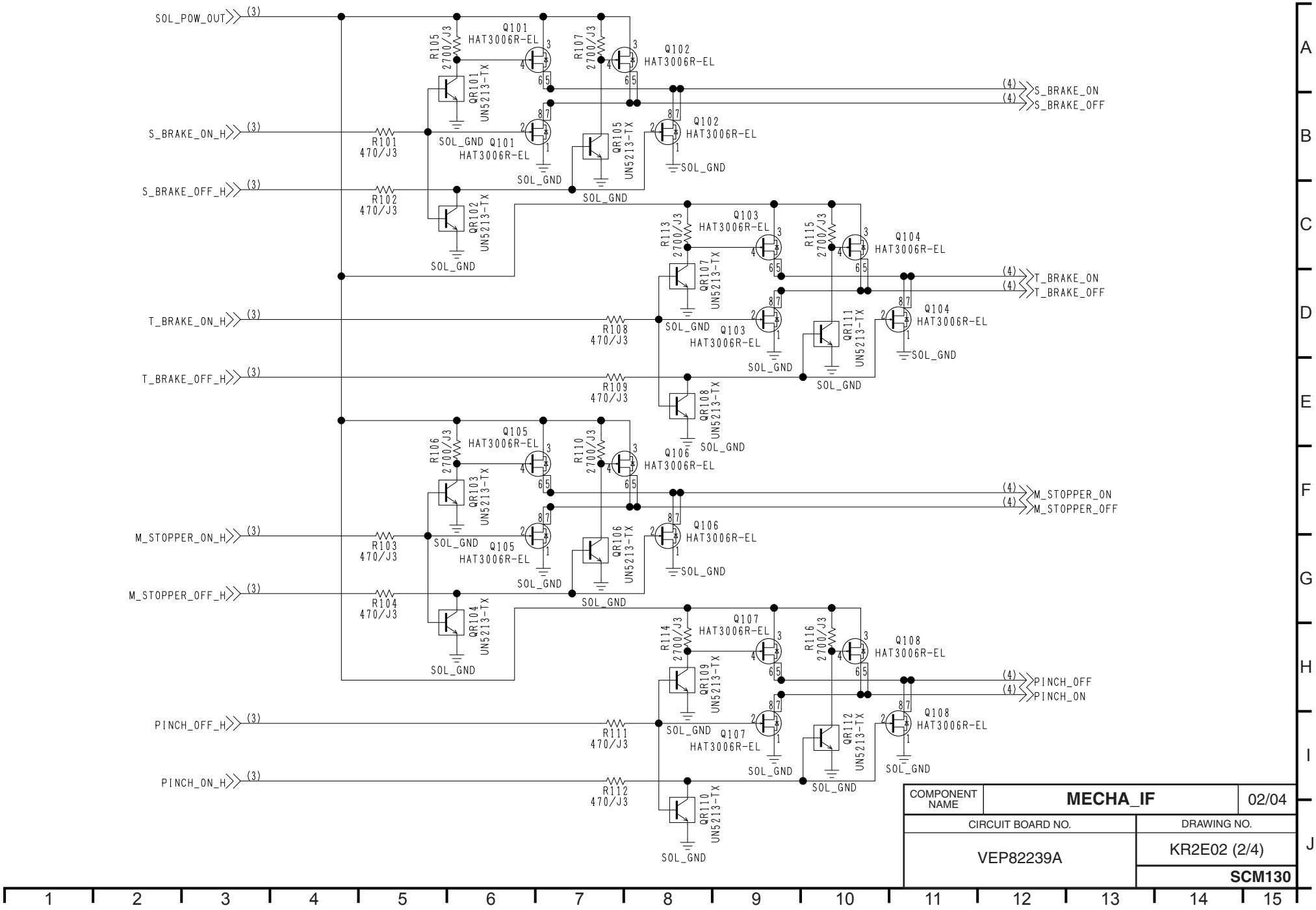
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



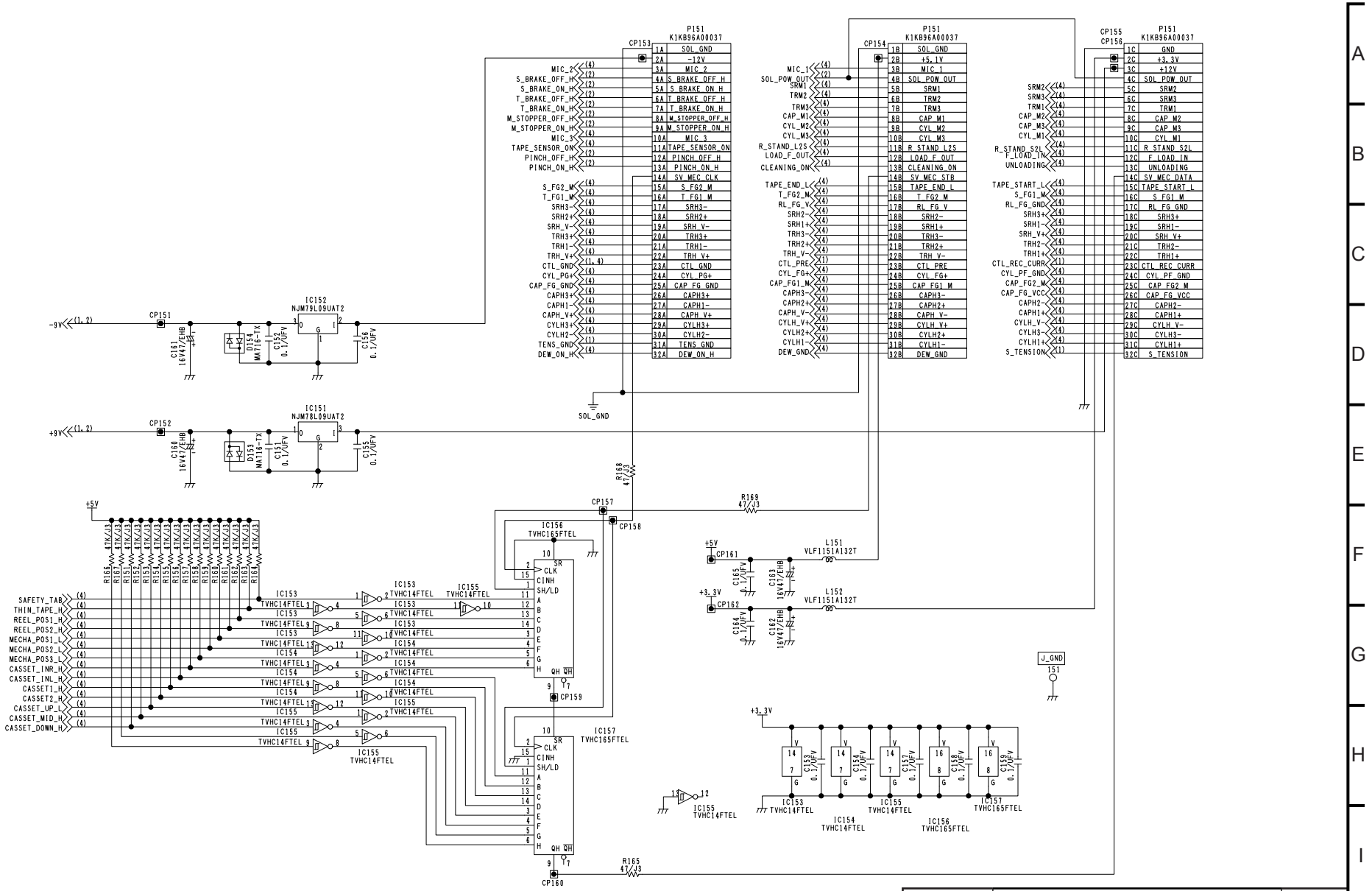
COMPONENT NAME	**MOTHER**	10/10
CIRCUIT BOARD NO.		DRAWING NO.
VEP80C14A		KR0Q24 (10/10)
		SCM128



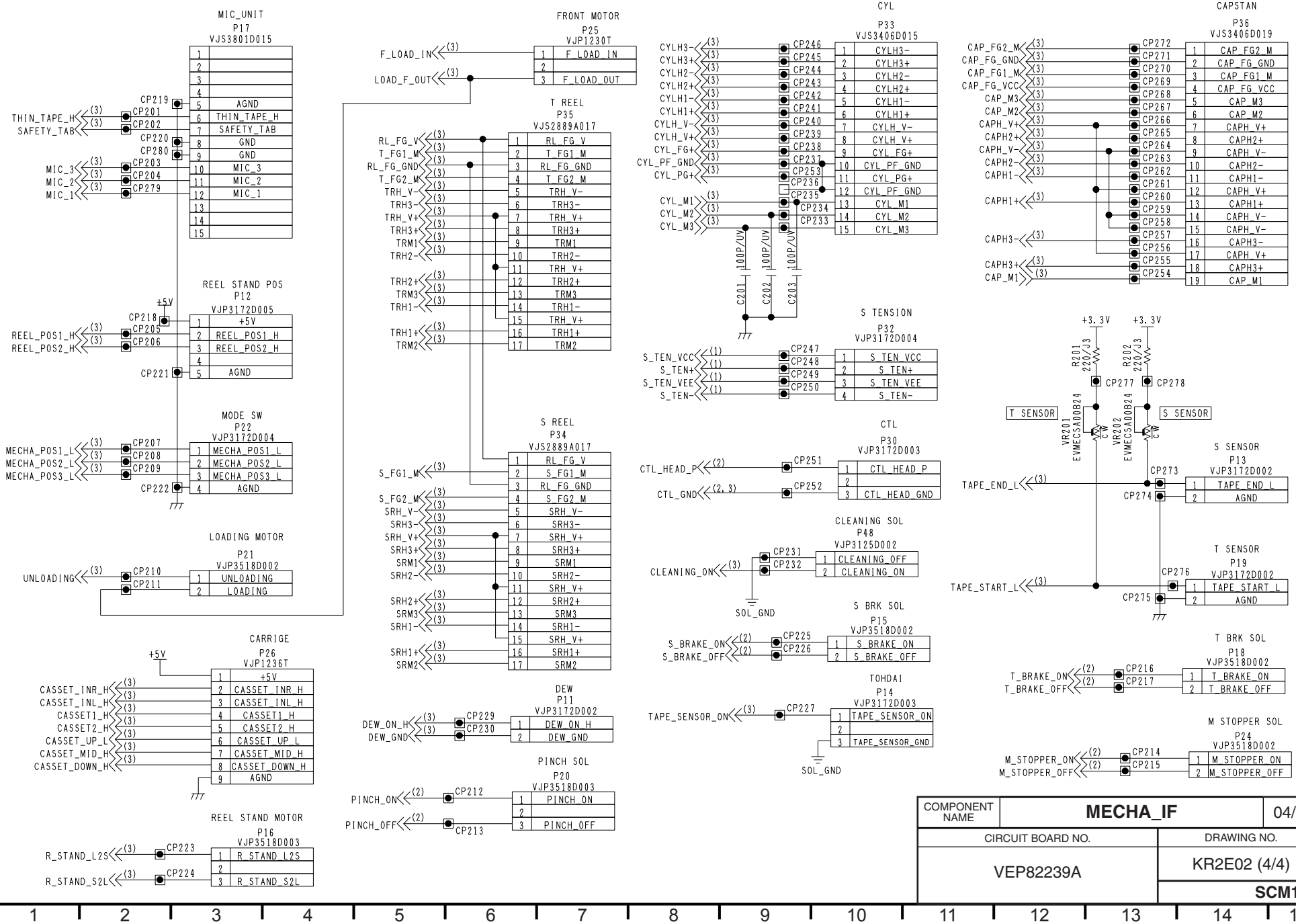
COMPONENT NAME	MECHA_IF	01/04
CIRCUIT BOARD NO.		DRAWING NO.
VEP82239A		KR2E02 (1/4)
		SCM129

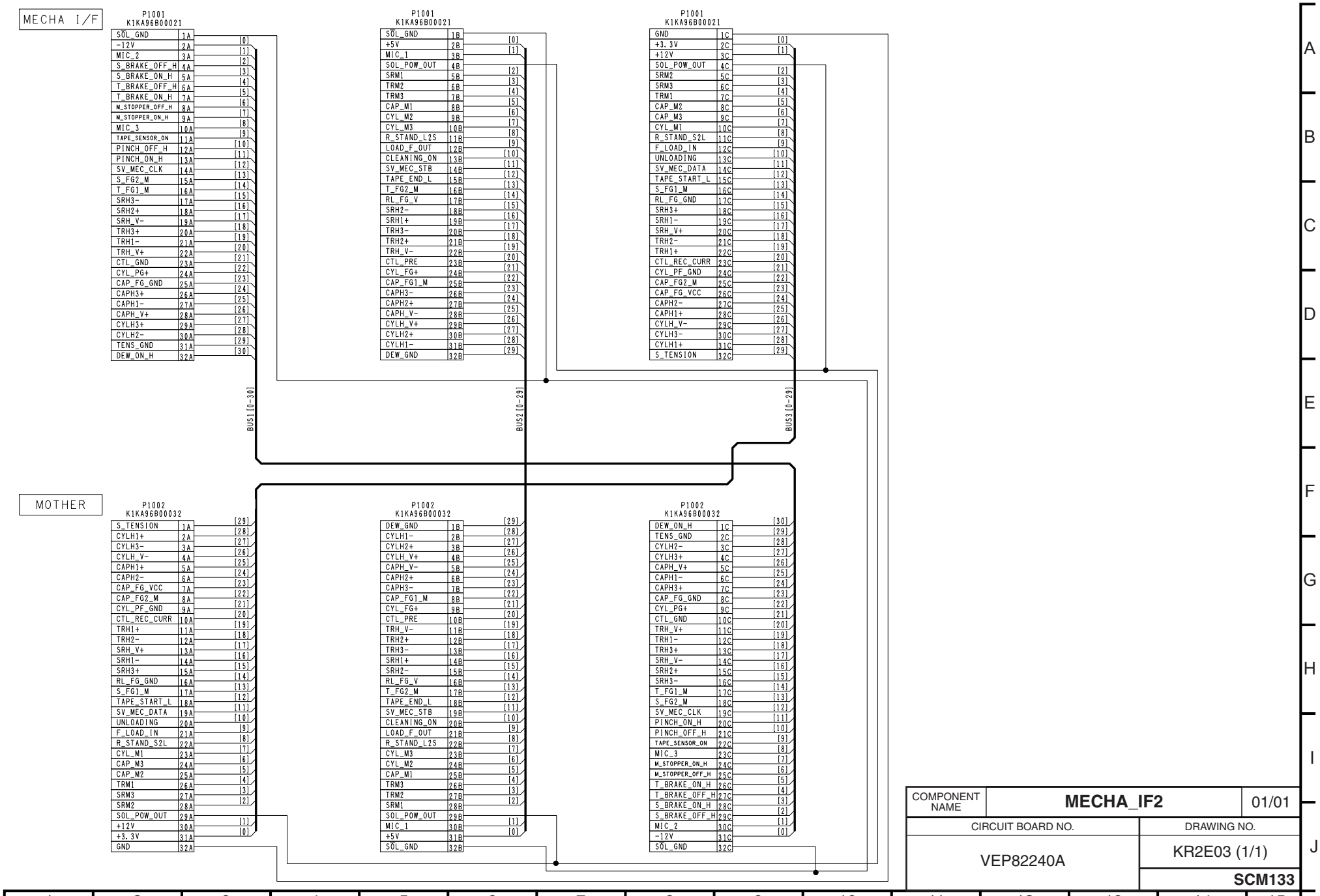


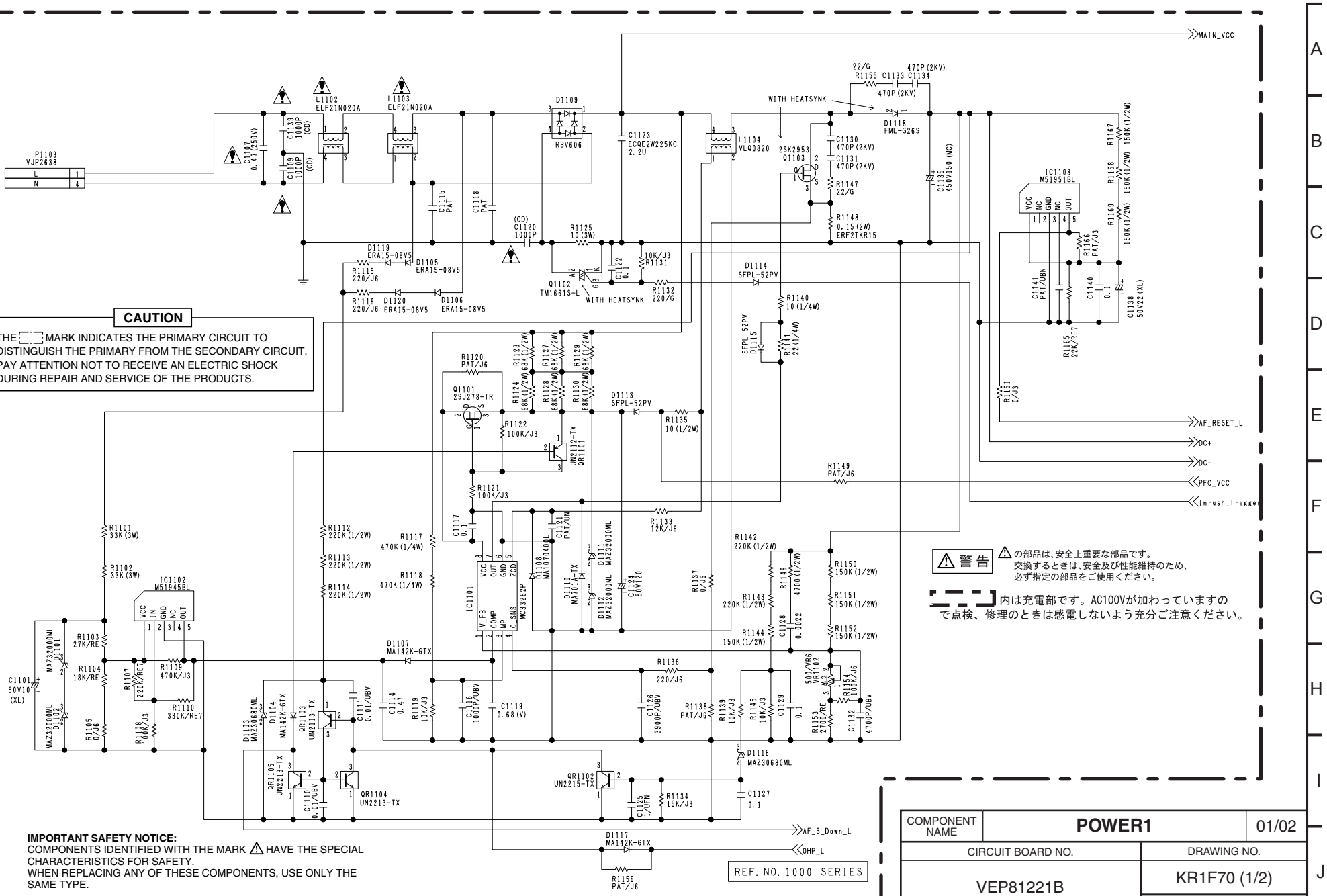
COMPONENT NAME	MECHA_IF	02/04
CIRCUIT BOARD NO.		DRAWING NO.
VEP82239A		KR2E02 (2/4)
		SCM130



COMPONENT NAME	**MECHA_IF**	03/04
CIRCUIT BOARD NO.		DRAWING NO.
VEP82239A		KR2E02 (3/4)
		SCM131


MIC_UNIT
P17
VJS3801D015
1 2 3 4 5 AGND 6 THIN_TAPE_H 7 SAFETY_TAB 8 GND 9 GND 10 MIC_3 11 MIC_2 12 MIC_1 13 14 15
CP219 CP201 CP202 CP220 CP280 CP203 CP204 CP279
THIN_TAPE_H SAFETY_TAB MIC_3 MIC_2 MIC_1
REEL STAND POS
P12
VJP3172D005
+5V
1 +5V 2 REEL_POS1_H 3 REEL_POS2_H 4 5 AGND
CP218 CP205 CP206 CP221
REEL_POS1_H REEL_POS2_H
MODE SW
P22
VJP3172D004
1 MECHA_POS1_L 2 MECHA_POS2_L 3 MECHA_POS3_L 4 AGND
CP207 CP208 CP209 CP222
MECHA_POS1_L MECHA_POS2_L MECHA_POS3_L
LOADING MOTOR
P21
VJP3518D002
1 UNLOADING 2 LOADING
CP210 CP211
UNLOADING
CARRIGE
P26
VJP1236T
+5V
1 +5V 2 CASSET_INR_H 3 CASSET_INL_H 4 CASSET1_H 5 CASSET2_H 6 CASSET_UP_L 7 CASSET_MID_H 8 CASSET_DOWN_H 9 AGND
CASSET_INR_H CASSET_INL_H CASSET1_H CASSET2_H CASSET_UP_L CASSET_MID_H CASSET_DOWN_H
REEL STAND MOTOR
P16
VJP3518D003
1 R_STAND_L2S 2 3 R_STAND_S2L
CP223 CP224
R_STAND_L2S R_STAND_S2L
FRONT MOTOR
P25
VJP1230T
1 F_LOAD_IN 2 3 F_LOAD_OUT
F_LOAD_IN LOAD_F_OUT
T REEL
P35
VJS2889A017
1 RL_FG_V 2 T_FG1_M 3 RL_FG_GND 4 T_FG2_M 5 TRH_V- 6 TRH3- 7 TRH_V+ 8 TRH3+ 9 TRM1 10 TRH2- 11 TRH_V+ 12 TRH2+ 13 TRM3 14 TRH1- 15 TRH_V+ 16 TRH1+ 17 TRM2
RL_FG_V T_FG1_M RL_FG_GND T_FG2_M TRH_V- TRH3- TRH_V+ TRH3+ TRM1 TRH2- TRH2+ TRM3 TRH1- TRH1+ TRM2
S REEL
P34
VJS2889A017
1 RL_FG_V 2 S_FG1_M 3 RL_FG_GND 4 S_FG2_M 5 SRH_V- 6 SRH3- 7 SRH_V+ 8 SRH3+ 9 SRM1 10 SRH2- 11 SRH_V+ 12 SRH2+ 13 SRM3 14 SRH1- 15 SRH_V+ 16 SRH1+ 17 SRM2
S_FG1_M S_FG2_M SRH_V- SRH3- SRH_V+ SRH3+ SRM1 SRH2- SRH2+ SRM3 SRH1- SRH1+ SRM2
DEW
P11
VJP3172D002
1 DEW_ON_H 2 DEW_GND
CP229 CP230
DEW_ON_H DEW_GND
PINCH SOL
P20
VJP3518D003
1 PINCH_ON 2 3 PINCH_OFF
CP212 CP213
PINCH_ON PINCH_OFF
CYL
P33
VJS3406D015
1 CYLH3- 2 CYLH3+ 3 CYLH2- 4 CYLH2+ 5 CYLH1- 6 CYLH1+ 7 CYLH_V- 8 CYLH_V+ 9 CYL_FG+ 10 CYL_PF_GND 11 CYL_PG+ 12 CYL_PF_GND 13 CYL_M1 14 CYL_M2 15 CYL_M3
CP246 CP245 CP244 CP243 CP242 CP241 CP240 CP239 CP238 CP237 CP253 CP236 CP235 CP234 CP233
CYLH3- CYLH3+ CYLH2- CYLH2+ CYLH1- CYLH1+ CYLH_V- CYLH_V+ CYL_FG+ CYL_PF_GND CYL_PG+
CYL_M1 CYL_M2 CYL_M3
100P/UV 100P/UV 100P/UV
C201 C202 C203
S TENSION
P32
VJP3172D004
1 S_TEN_VCC 2 S_TEN+ 3 S_TEN_VEE 4 S_TEN-
CP247 CP248 CP249 CP250
S_TEN_VCC S_TEN+ S_TEN_VEE S_TEN-
CTL
P30
VJP3172D003
1 CTL_HEAD_P 2 3 CTL_HEAD_GND
CP251 CP252
CTL_HEAD_P CTL_GND
CLEANING SOL
P48
VJP3125D002
1 CLEANING_OFF 2 CLEANING_ON
CP231 CP232
CLEANING_ON SOL_GND
S BRK SOL
P15
VJP3518D002
1 S_BRAKE_ON 2 S_BRAKE_OFF
CP225 CP226
S_BRAKE_ON S_BRAKE_OFF
TOHDAI
P14
VJP3172D003
1 TAPE_SENSOR_ON 2 3 TAPE_SENSOR_GND
CP227
TAPE_SENSOR_ON SOL_GND
CAPSTAN
P36
VJS3406D019
1 CAP_FG2_M 2 CAP_FG_GND 3 CAP_FG1_M 4 CAP_FG_VCC 5 CAP_M3 6 CAP_M2 7 CAPH_V+ 8 CAPH2+ 9 CAPH_V- 10 CAPH2- 11 CAPH1- 12 CAPH_V+ 13 CAPH1+ 14 CAPH_V- 15 CAPH_V- 16 CAPH3- 17 CAPH_V+ 18 CAPH3+ 19 CAP_M1
CP272 CP271 CP270 CP269 CP268 CP267 CP266 CP265 CP264 CP263 CP262 CP261 CP260 CP259 CP258 CP257 CP256 CP255 CP254
CAP_FG2_M CAP_FG_GND CAP_FG1_M CAP_FG_VCC CAP_M3 CAP_M2 CAPH_V+ CAPH2+ CAPH_V- CAPH2- CAPH1- CAPH1+ CAPH3- CAPH3+ CAP_M1
+3.3V +3.3V
R201 220/J3 R202 220/J3
CP277 CP278
T SENSOR S SENSOR
VR201 EVMECSA00B24 VR202 EVMECSA00B24
S SENSOR
P13
VJP3172D002
1 TAPE_END_L 2 AGND
CP273 CP274
TAPE_END_L
T SENSOR
P19
VJP3172D002
1 TAPE_START_L 2 AGND
CP276 CP275
TAPE_START_L
T BRK SOL
P18
VJP3518D002
1 T_BRAKE_ON 2 T_BRAKE_OFF
CP216 CP217
T_BRAKE_ON T_BRAKE_OFF
M STOPPER SOL
P24
VJP3518D002
1 M_STOPPER_ON 2 M_STOPPER_OFF
CP214 CP215
M_STOPPER_ON M_STOPPER_OFF
COMPONENT NAME
MECHA_IF
04/04
CIRCUIT BOARD NO.
VEP82239A
DRAWING NO.
KR2E02 (4/4)
SCM132
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

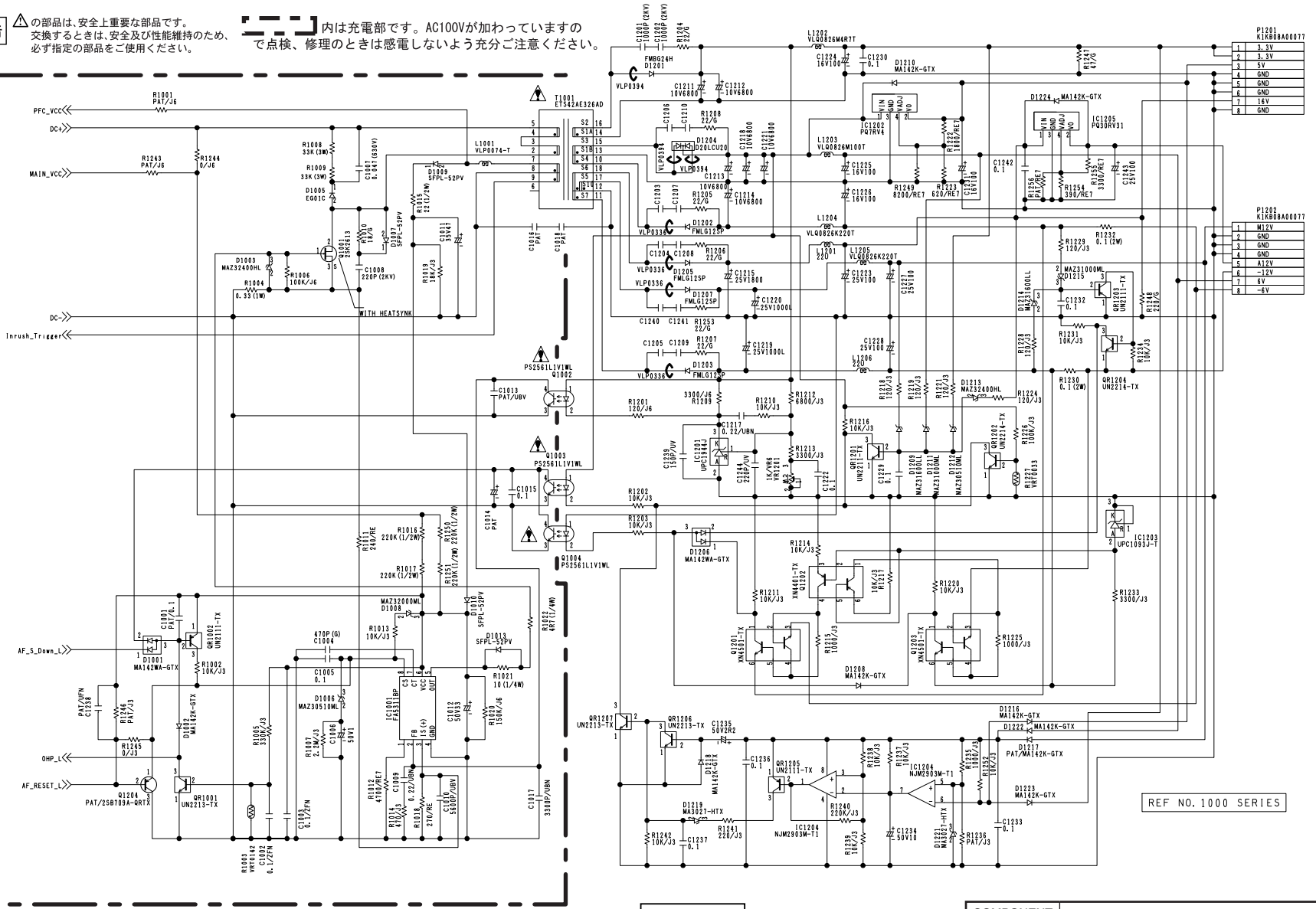

MECHA I/F
MOTHER
P1001
K1KA96B00021
SOL_GND 1A
-12V 2A
MIC_2 3A
S_BRAKE_OFF_H 4A
S_BRAKE_ON_H 5A
T_BRAKE_OFF_H 6A
T_BRAKE_ON_H 7A
M_STOPPER_OFF_H 8A
M_STOPPER_ON_H 9A
MIC_3 10A
TAPE_SENSOR_ON 11A
PINCH_OFF_H 12A
PINCH_ON_H 13A
SV_MEC_CLK 14A
S_FG2_M 15A
T_FG1_M 16A
SRH3- 17A
SRH2+ 18A
SRH_V- 19A
TRH3+ 20A
TRH1- 21A
TRH_V+ 22A
CTL_GND 23A
CYL_PG+ 24A
CAP_FG_GND 25A
CAPH3+ 26A
CAPH1- 27A
CAPH_V+ 28A
CYLH3+ 29A
CYLH2- 30A
TENS_GND 31A
DEW_ON_H 32A
P1001
K1KA96B00021
SOL_GND 1B
+5V 2B
MIC_1 3B
SOL_POW_OUT 4B
SRM1 5B
TRM2 6B
TRM3 7B
CAP_M1 8B
CYL_M2 9B
CYL_M3 10B
R_STAND_L2S 11B
LOAD_F_OUT 12B
CLEANING_ON 13B
SV_MEC_STB 14B
TAPE_END_L 15B
T_FG2_M 16B
RL_FG_V 17B
SRH2- 18B
SRH1+ 19B
TRH3- 20B
TRH2+ 21B
TRH_V- 22B
CTL_PRE 23B
CYL_FG+ 24B
CAP_FG1_M 25B
CAPH3- 26B
CAPH2+ 27B
CAPH_V- 28B
CYLH_V+ 29B
CYLH2+ 30B
CYLH1- 31B
DEW_GND 32B
P1001
K1KA96B00021
GND 1C
+3.3V 2C
+12V 3C
SOL_POW_OUT 4C
SRM2 5C
SRM3 6C
TRM1 7C
CAP_M2 8C
CAP_M3 9C
CYL_M1 10C
R_STAND_S2L 11C
F_LOAD_IN 12C
UNLOADING 13C
SV_MEC_DATA 14C
TAPE_START_L 15C
S_FG1_M 16C
RL_FG_GND 17C
SRH3+ 18C
SRH1- 19C
SRH_V+ 20C
TRH2- 21C
TRH1+ 22C
CTL_REC_CURR 23C
CYL_PF_GND 24C
CAP_FG2_M 25C
CAP_FG_VCC 26C
CAPH2- 27C
CAPH1+ 28C
CYLH_V- 29C
CYLH3- 30C
CYLH1+ 31C
S_TENSION 32C
BUS1 [0-30]
BUS2 [0-29]
BUS3 [0-29]
P1002
K1KA96B00032
S_TENSION 1A
CYLH1+ 2A
CYLH3- 3A
CYLH_V- 4A
CAPH1+ 5A
CAPH2- 6A
CAP_FG_VCC 7A
CAP_FG2_M 8A
CYL_PF_GND 9A
CTL_REC_CURR 10A
TRH1+ 11A
TRH2- 12A
SRH_V+ 13A
SRH1- 14A
SRH3+ 15A
RL_FG_GND 16A
S_FG1_M 17A
TAPE_START_L 18A
SV_MEC_DATA 19A
UNLOADING 20A
F_LOAD_IN 21A
R_STAND_S2L 22A
CYL_M1 23A
CAP_M3 24A
CAP_M2 25A
TRM1 26A
SRM3 27A
SRM2 28A
SOL_POW_OUT 29A
+12V 30A
+3.3V 31A
GND 32A
P1002
K1KA96B00032
DEW_GND 1B
CYLH1- 2B
CYLH2+ 3B
CYLH_V+ 4B
CAPH_V- 5B
CAPH2+ 6B
CAPH3- 7B
CAP_FG1_M 8B
CYL_FG+ 9B
CTL_PRE 10B
TRH_V- 11B
TRH2+ 12B
TRH3- 13B
SRH1+ 14B
SRH2- 15B
RL_FG_V 16B
T_FG2_M 17B
TAPE_END_L 18B
SV_MEC_STB 19B
CLEANING_ON 20B
LOAD_F_OUT 21B
R_STAND_L2S 22B
CYL_M3 23B
CYL_M2 24B
CAP_M1 25B
TRM3 26B
TRM2 27B
SRM1 28B
SOL_POW_OUT 29B
MIC_1 30B
+5V 31B
SOL_GND 32B
P1002
K1KA96B00032
DEW_ON_H 1C
TENS_GND 2C
CYLH2- 3C
CYLH3+ 4C
CAPH_V+ 5C
CAPH1- 6C
CAPH3+ 7C
CAP_FG_GND 8C
CYL_PG+ 9C
CTL_GND 10C
TRH_V+ 11C
TRH1- 12C
TRH3+ 13C
SRH_V- 14C
SRH2+ 15C
SRH3- 16C
T_FG1_M 17C
S_FG2_M 18C
SV_MEC_CLK 19C
PINCH_ON_H 20C
PINCH_OFF_H 21C
TAPE_SENSOR_ON 22C
MIC_3 23C
M_STOPPER_ON_H 24C
M_STOPPER_OFF_H 25C
T_BRAKE_ON_H 26C
T_BRAKE_OFF_H 27C
S_BRAKE_ON_H 28C
S_BRAKE_OFF_H 29C
MIC_2 30C
-12V 31C
SOL_GND 32C
COMPONENT NAME
MECHA_IF2
01/01
CIRCUIT BOARD NO.
VEP82240A
DRAWING NO.
KR2E03 (1/1)
SCM133
A
B
C
D
E
F
G
H
I
J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



COMPONENT NAME	POWER1	01/02
CIRCUIT BOARD NO.		DRAWING NO.
VEP81221B		KR1F70 (1/2)
		SCM134

⚠ 警 告 ⚠の部品は、安全上重要な部品です。
交換するときは、安全及び性能維持のため、
必ず指定の部品をご使用ください。

内は充電部です。AC100Vが加わっていますので点検、修理のときは感電しないよう充分ご注意ください。

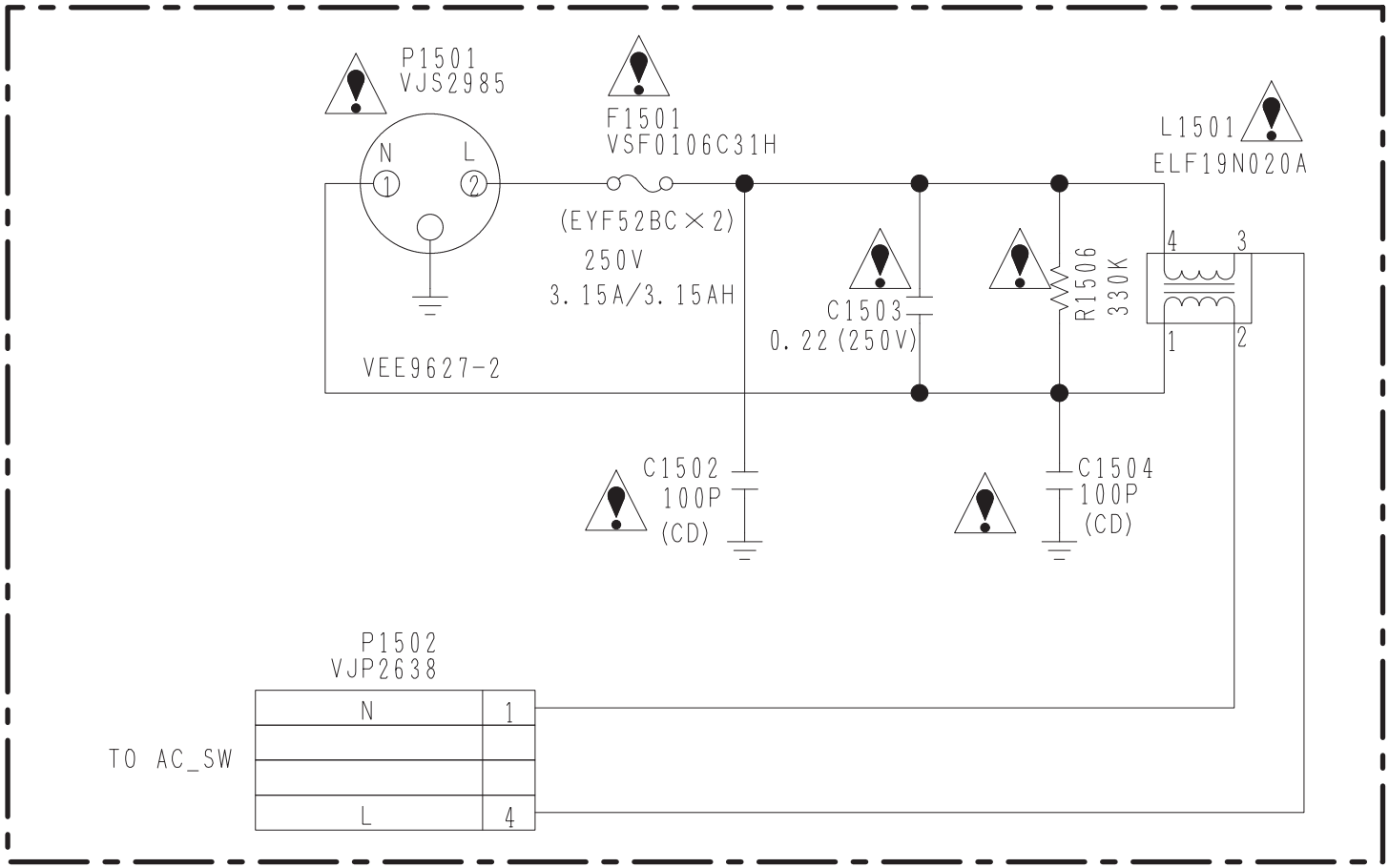


IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

CAUTION

THE MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

COMPONENT NAME	POWER1	02/02
CIRCUIT BOARD NO.		DRAWING NO.
VEP81221B		KR1F70 (2/2)
		SCM135



⚠ 警告 ⚠の部品は、安全上重要な部品です。
交換するときは、安全及び性能維持のため、
必ず指定の部品をご使用ください。

内は充電部です。AC100Vが加わっていますの
で点検、修理のときは感電しないよう充分ご注意ください。

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

CAUTION

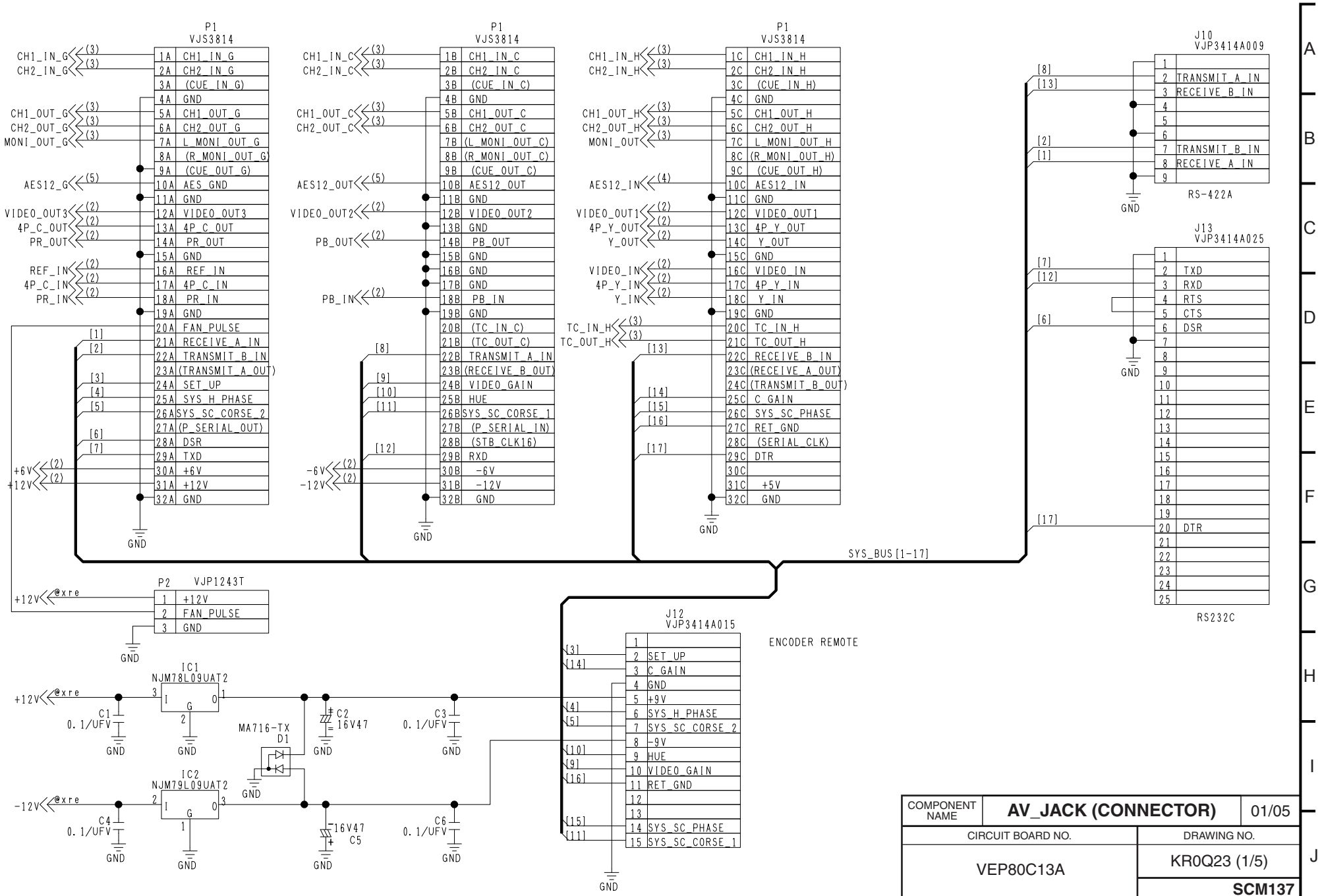
THE MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT. PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

REF. NO. 1500 SERIES

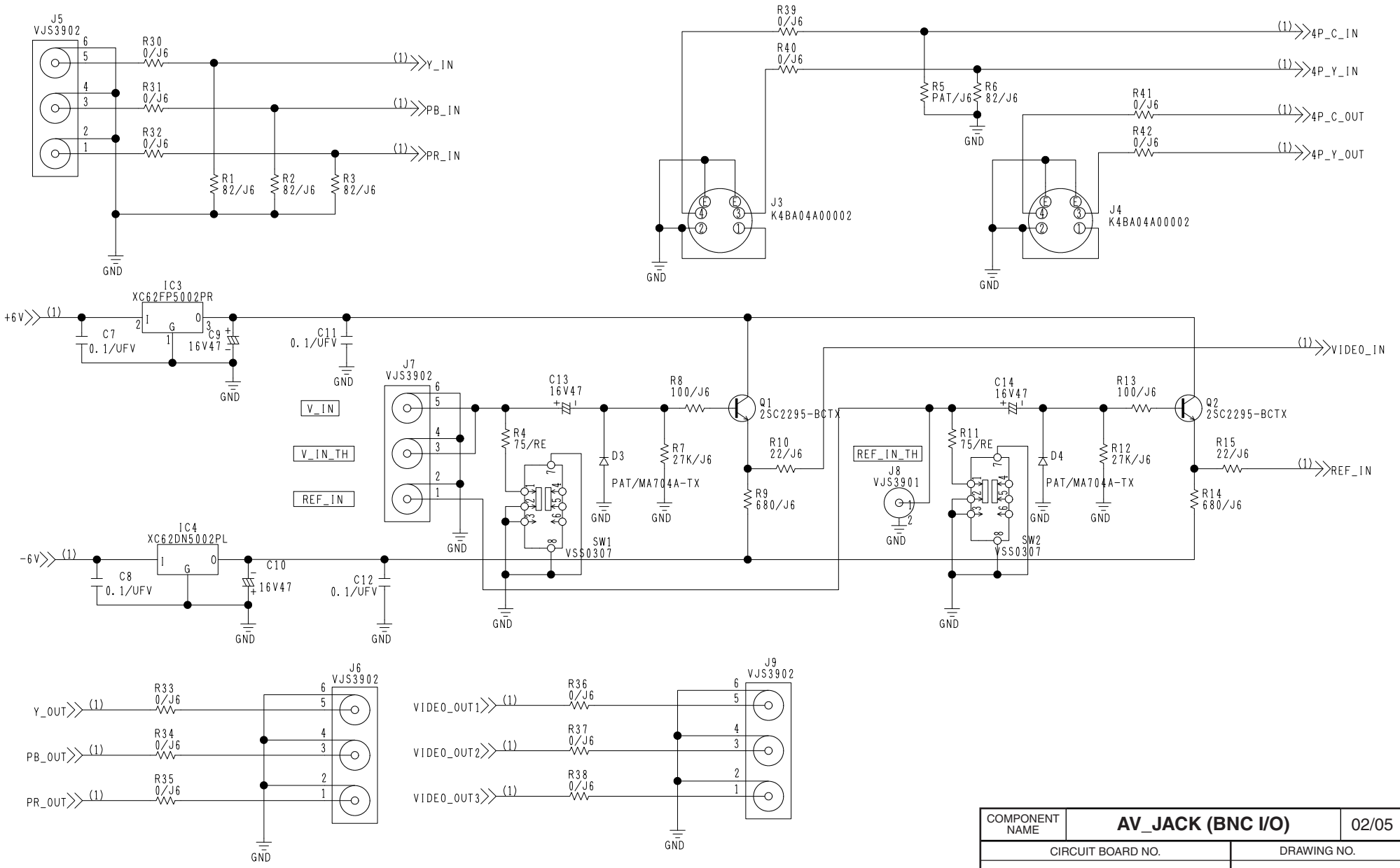
COMPONENT NAME	POWER2	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP81222A		KR1E86 (1/1)
		SCM136

A B C D E F G H I J

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

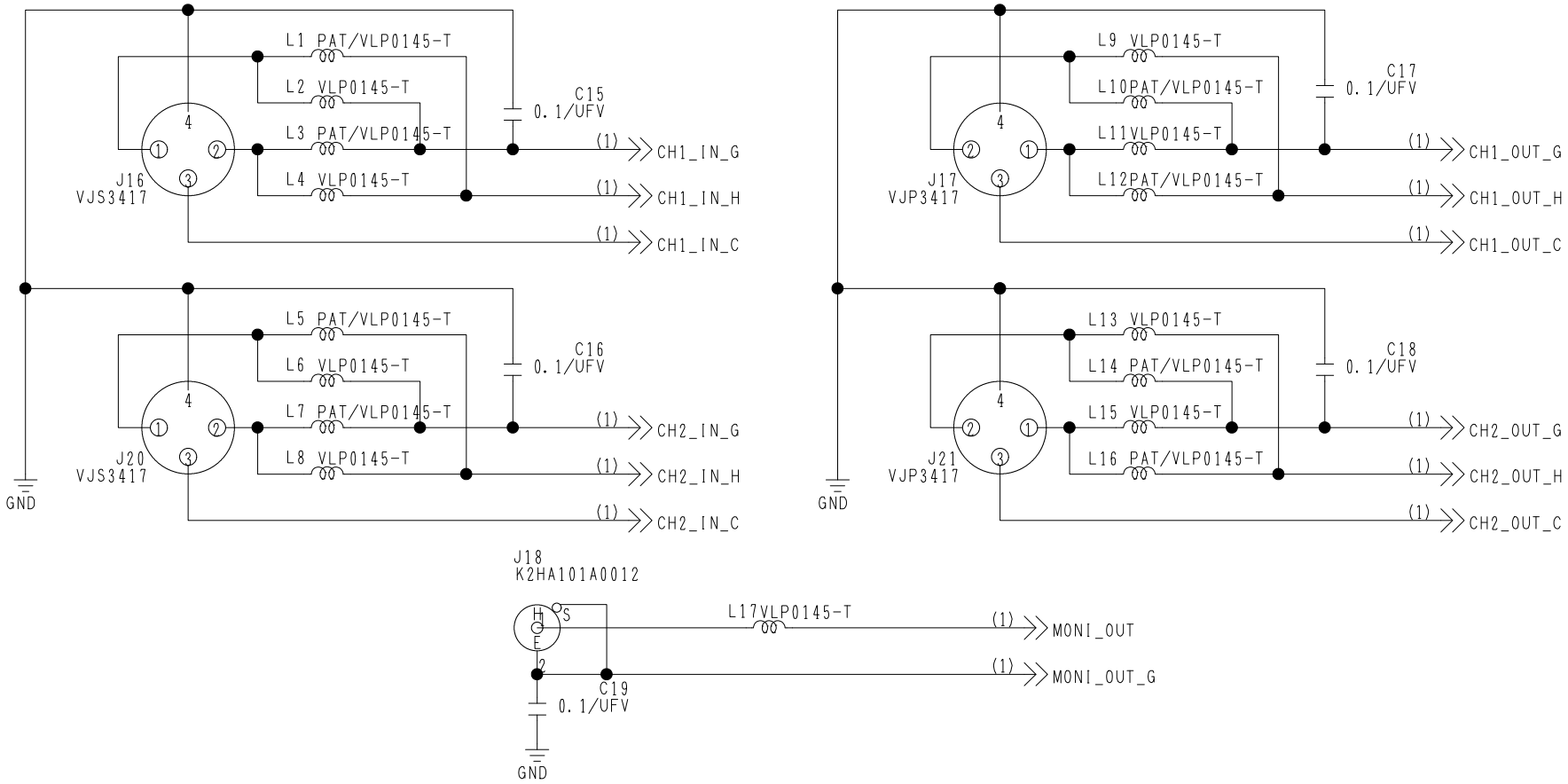


COMPONENT NAME	AV_JACK (CONNECTOR)	01/05
CIRCUIT BOARD NO.		DRAWING NO.
VEP80C13A		KR0Q23 (1/5)
		SCM137



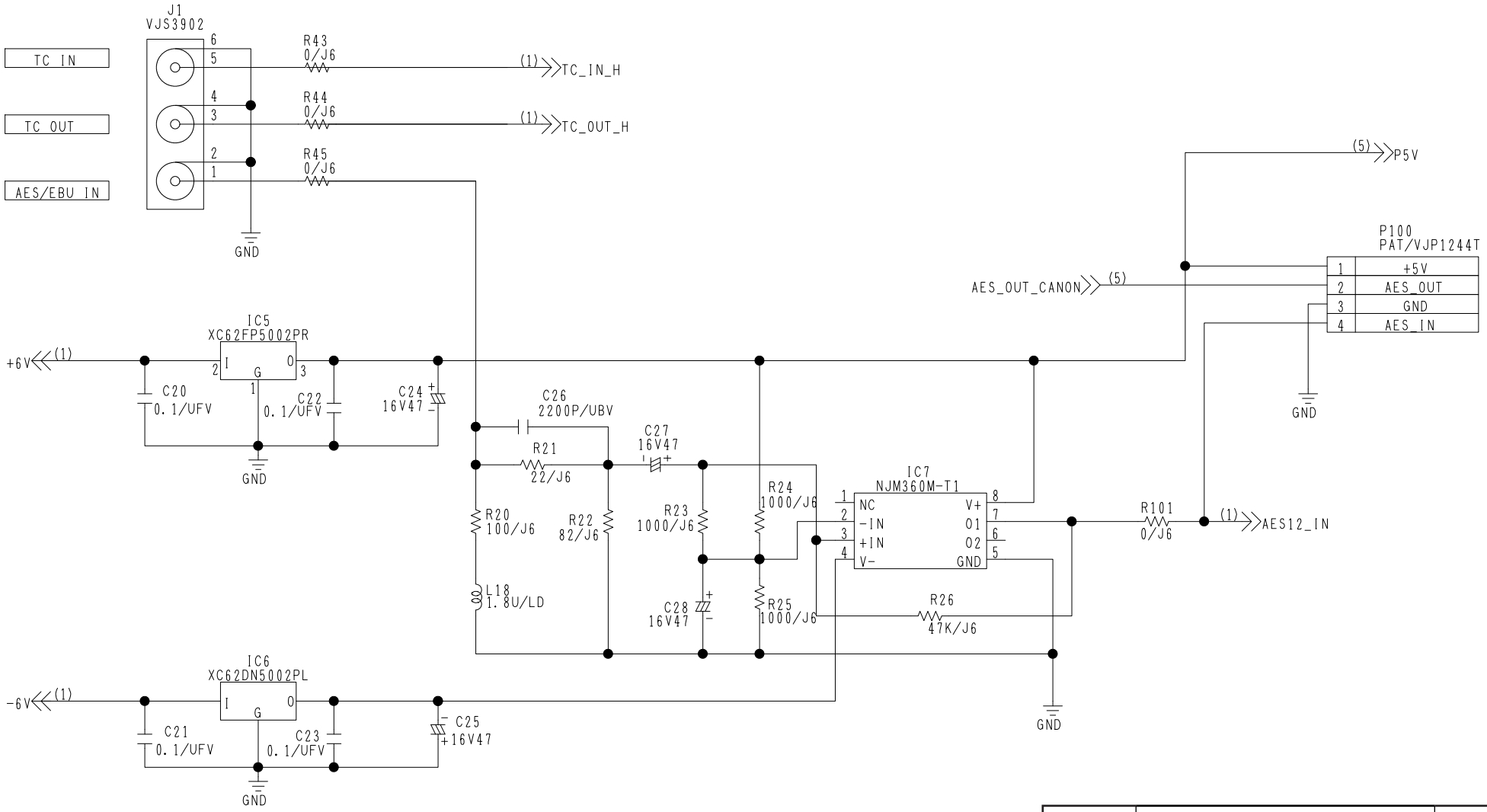
COMPONENT NAME	AV_JACK (BNC I/O)	02/05
CIRCUIT BOARD NO.		DRAWING NO.
VEP80C13A		KR0Q23 (2/5)
		SCM138

For OVER SEAS

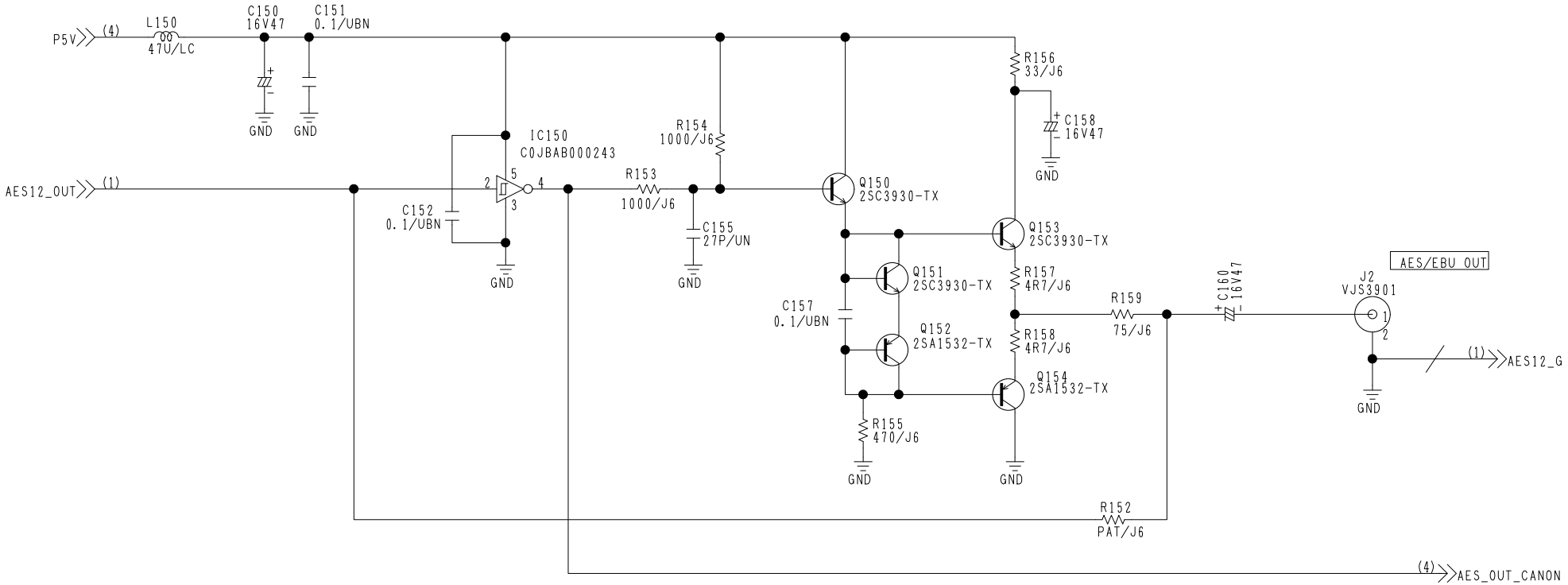


		J16	J20	L1	L2	L3	L4	L5	L6	L7	L8
INPUT	For OVER SEAS	VJS3417	VJS3417	–	VLP0145	–	VLP0145	–	VLP0145	–	VLP0145
	For JAPAN	VJP3417	VJP3417	VLP0145	–	VLP0145	–	VLP0145	–	VLP0145	–
		J17	J21	L9	L10	L11	L12	L13	L14	L15	L16
OUTPUT	For OVER SEAS	VJP3417	VJP3417	VLP0145	–	VLP0145	–	VLP0145	–	VLP0145	–
	For JAPAN	VJS3417	VJS3417	–	VLP0145	–	VLP0145	–	VLP0145	–	VLP0145

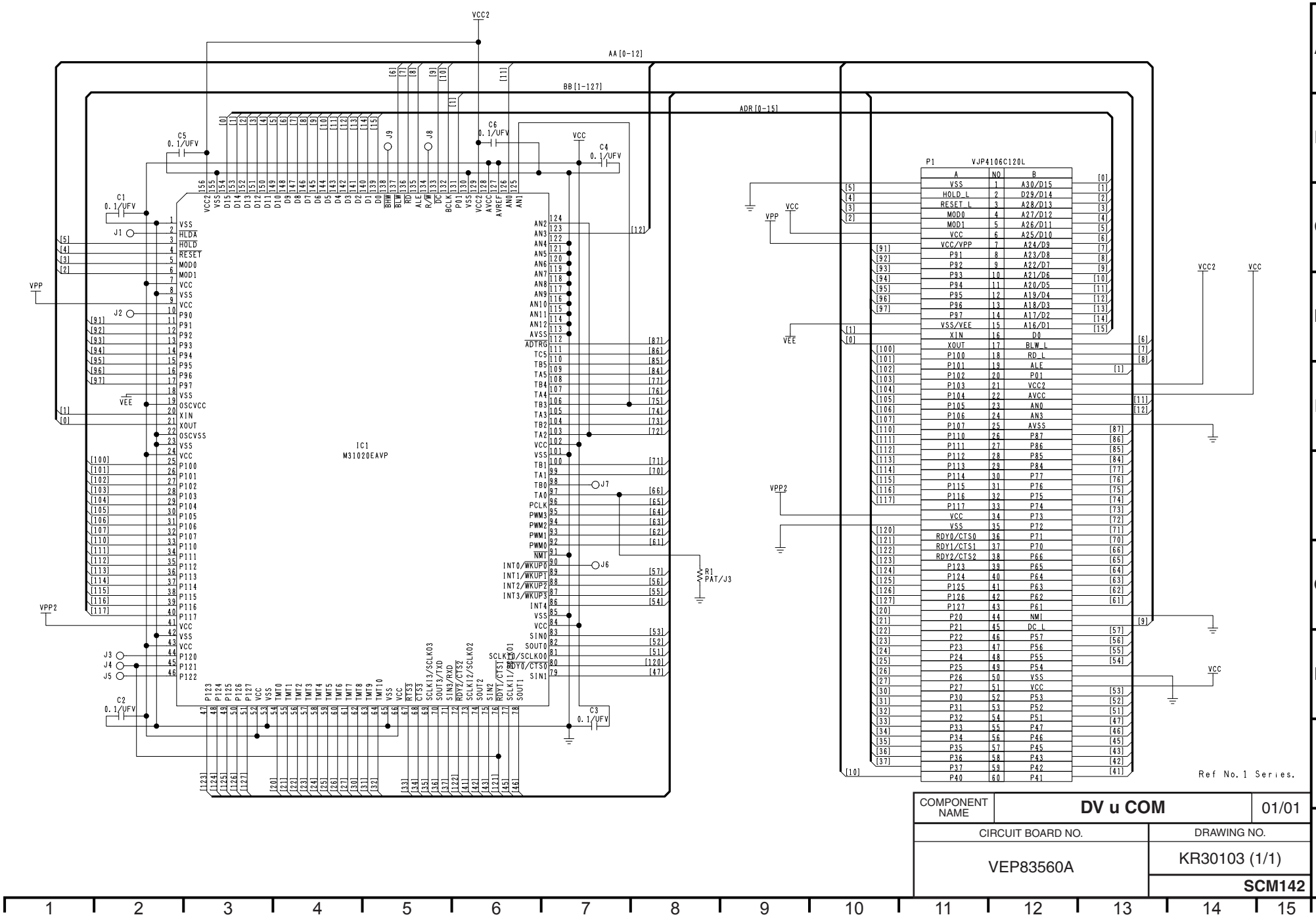
COMPONENT NAME	AV_JACK (AUDIO I/O)	03/05
CIRCUIT BOARD NO.		DRAWING NO.
VEP80C13A		KR0Q23 (3/5)
		SCM139



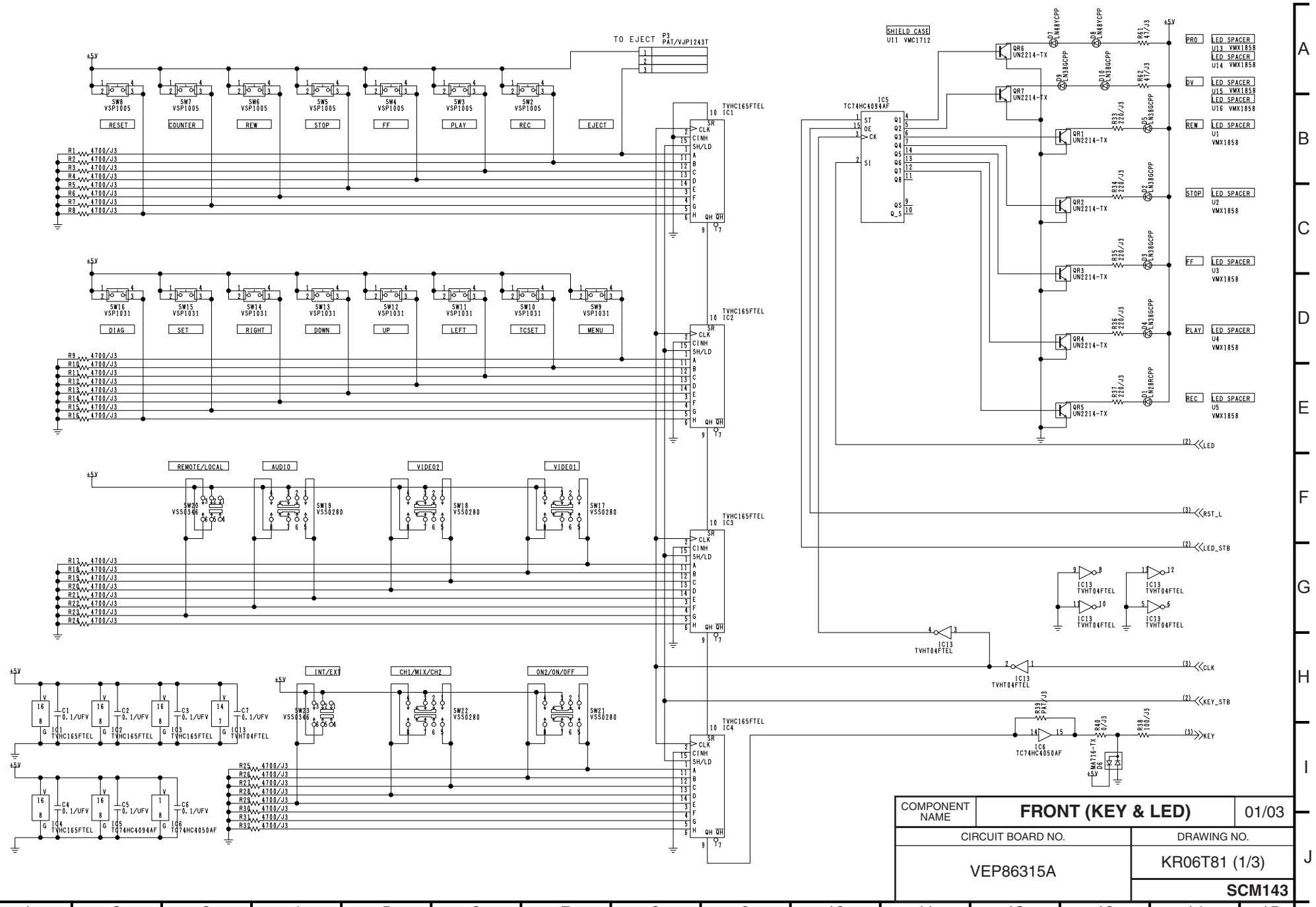
COMPONENT NAME	AV_JACK (AES I/O)	04/05
CIRCUIT BOARD NO.		DRAWING NO.
VEP80C13A		KR0Q23 (4/5)
		SCM140



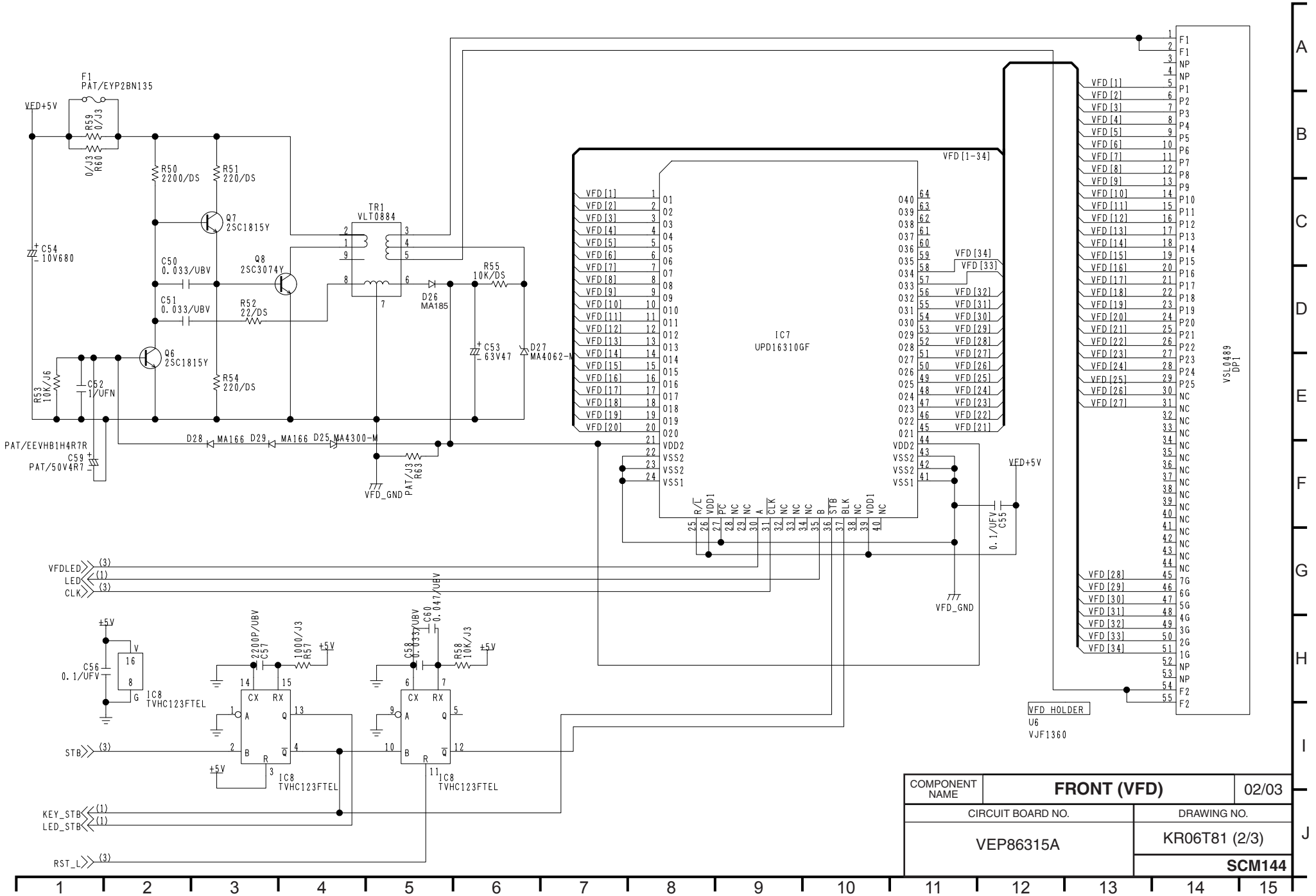
COMPONENT NAME	AV_JACK (AES OUT)	05/05
CIRCUIT BOARD NO.		DRAWING NO.
VEP80C13A		KR0Q23 (5/5)
		SCM141



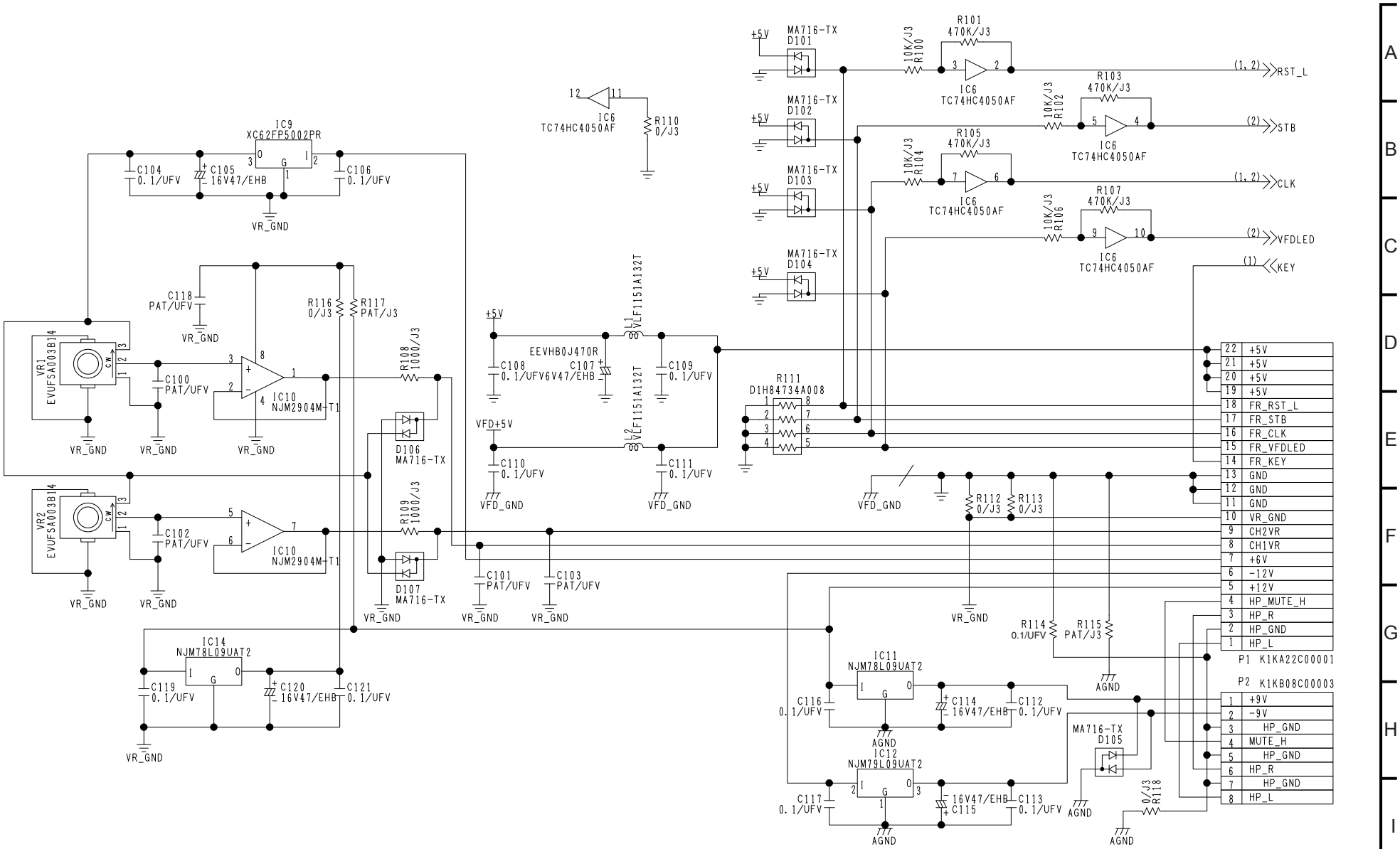
COMPONENT NAME	DV u COM	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83560A	KR30103 (1/1)	
	SCM142	



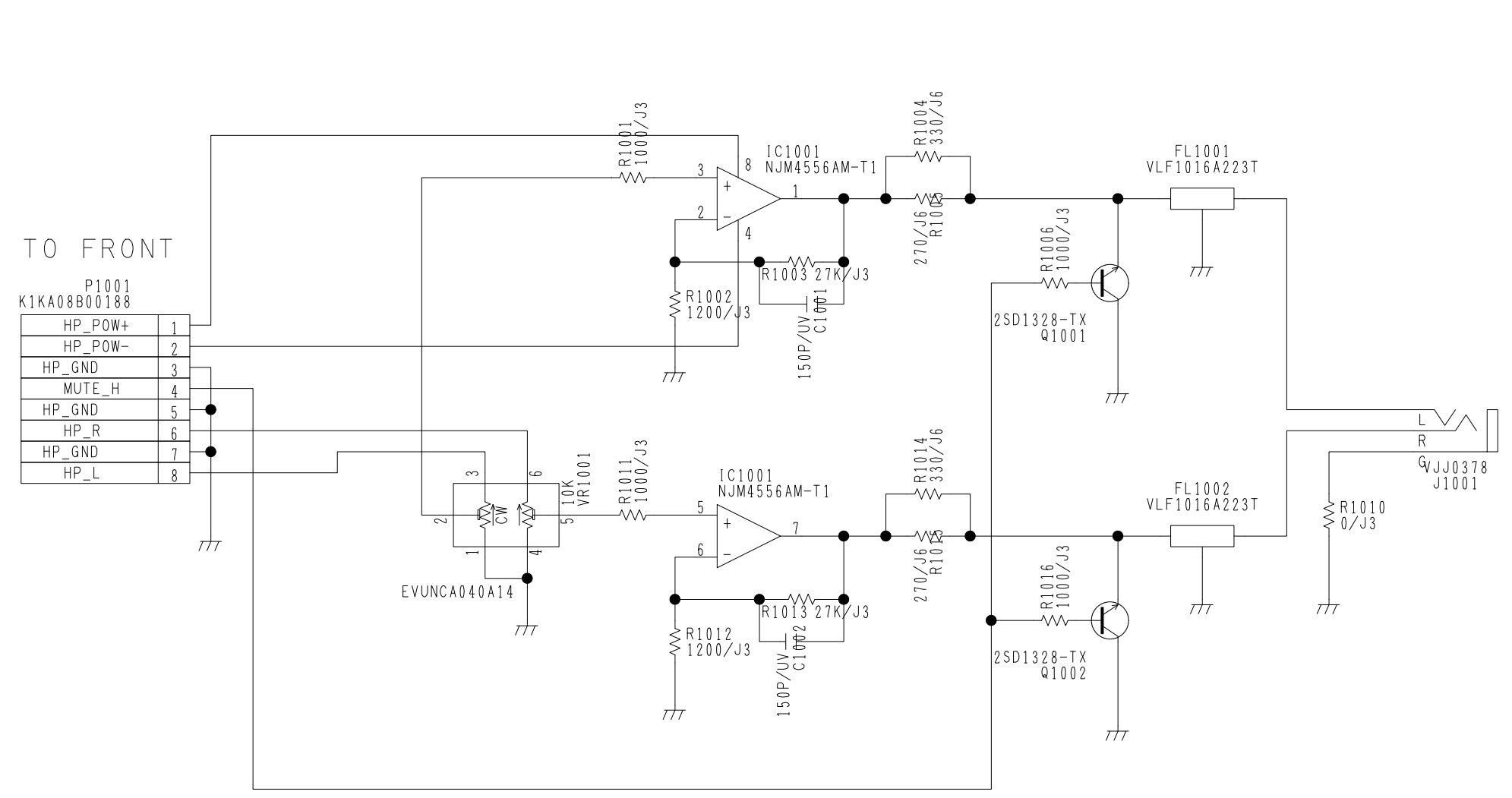
COMPONENT NAME	FRONT (KEY & LED)	01/03
CIRCUIT BOARD NO.		DRAWING NO.
VEP86315A		KR06T81 (1/3)
		SCM143



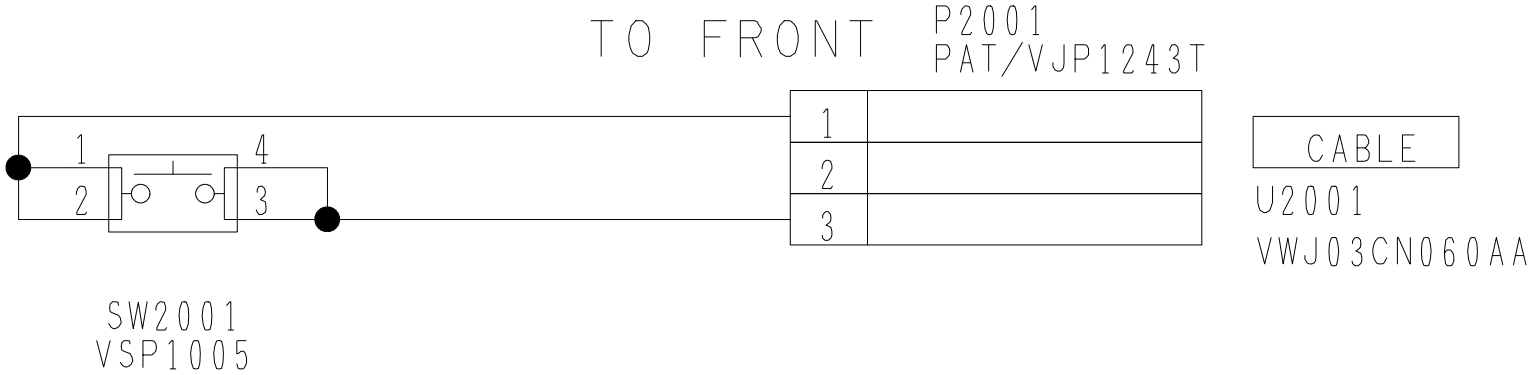
COMPONENT NAME	FRONT (VFD)	02/03
CIRCUIT BOARD NO.		DRAWING NO.
VEP86315A		KR06T81 (2/3)
		SCM144



COMPONENT NAME	FRONT (VR, CONECTOR)	03/03
CIRCUIT BOARD NO.		DRAWING NO.
VEP86315A		KR06T81 (3/3)
		SCM145



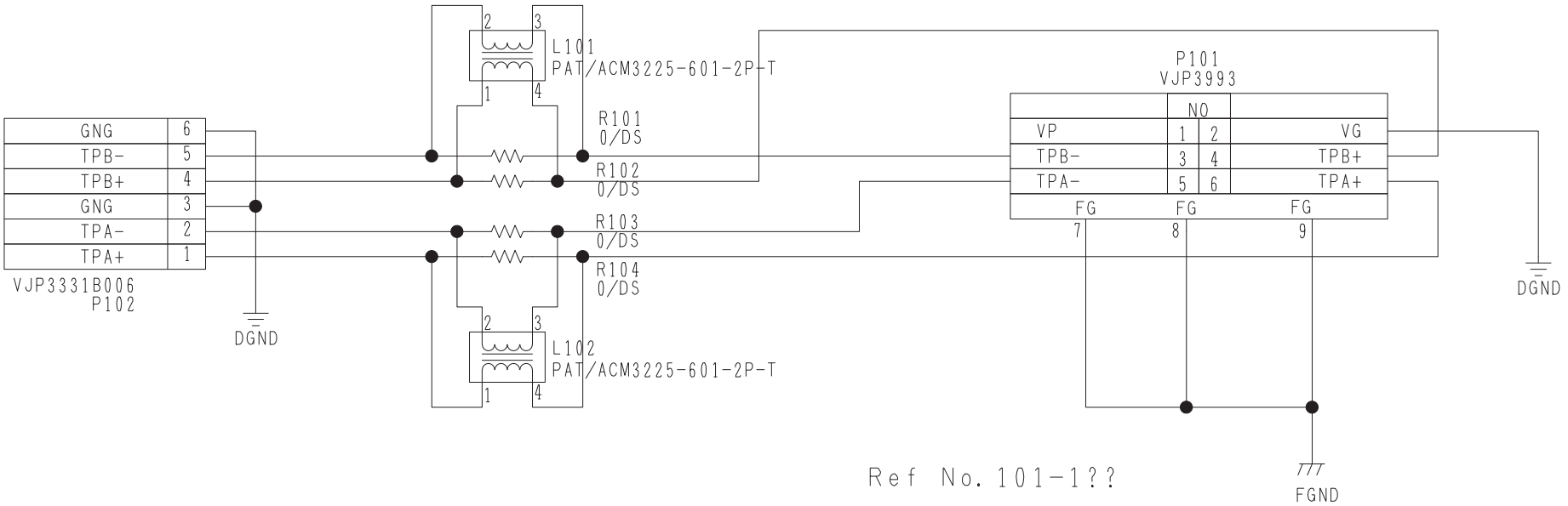
COMPONENT NAME	HP (HEAD PHONE)	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP80C15A		KR0Q25 (1/1)
		SCM146



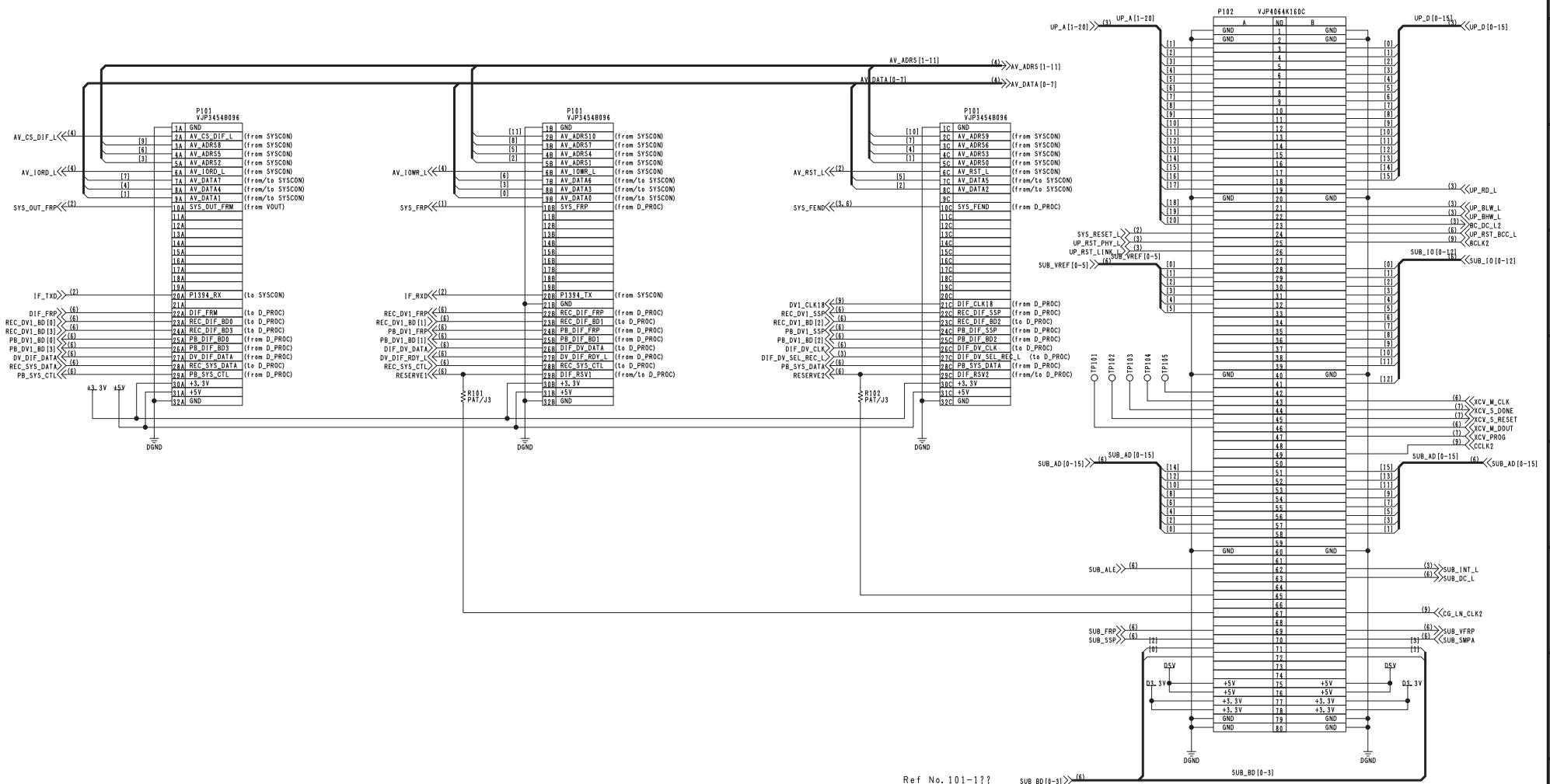
COMPONENT NAME	EJECT	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP80C16A		KR0Q26 (1/1)
		SCM147

A B C D E F G H I J

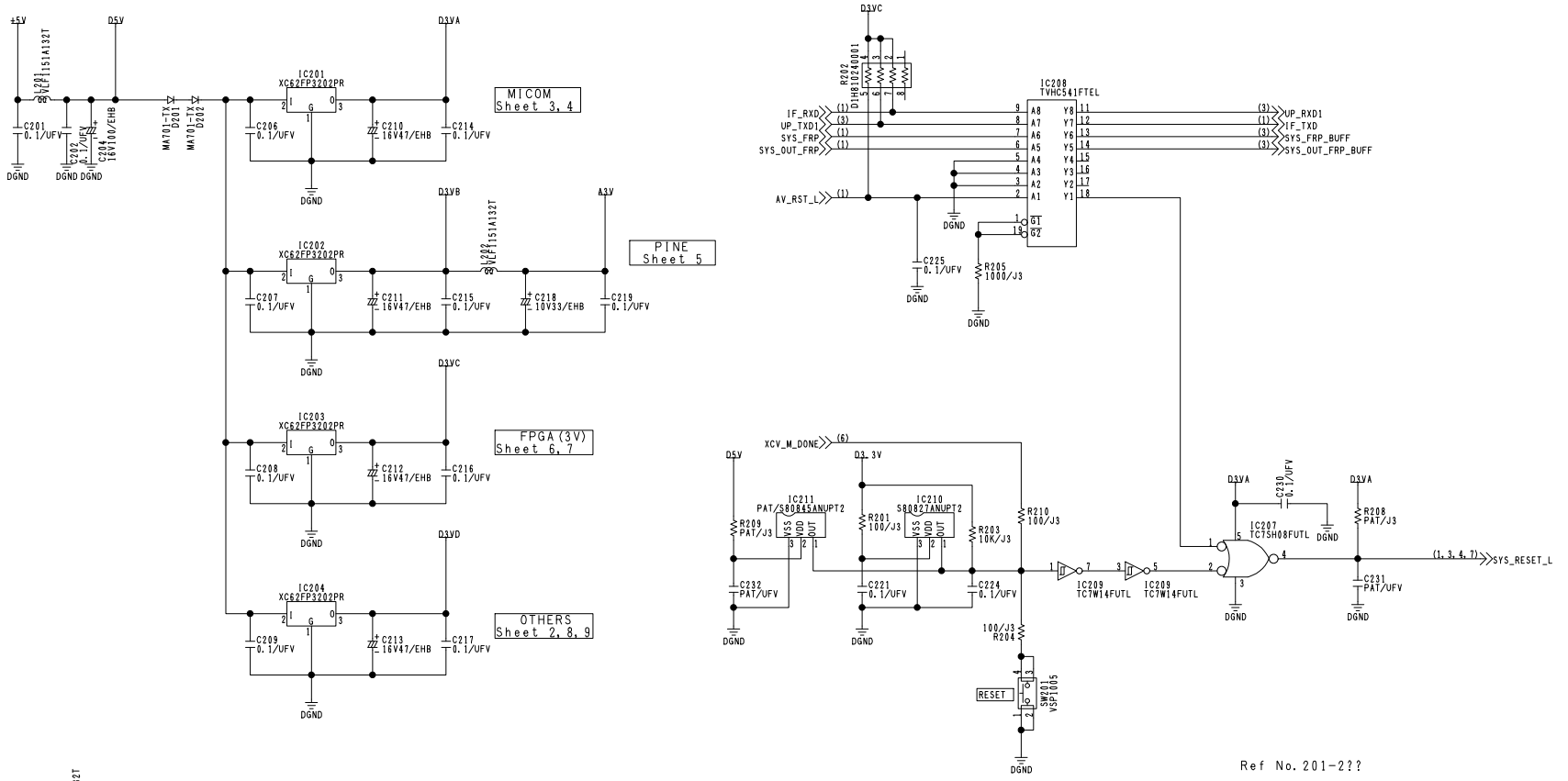
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



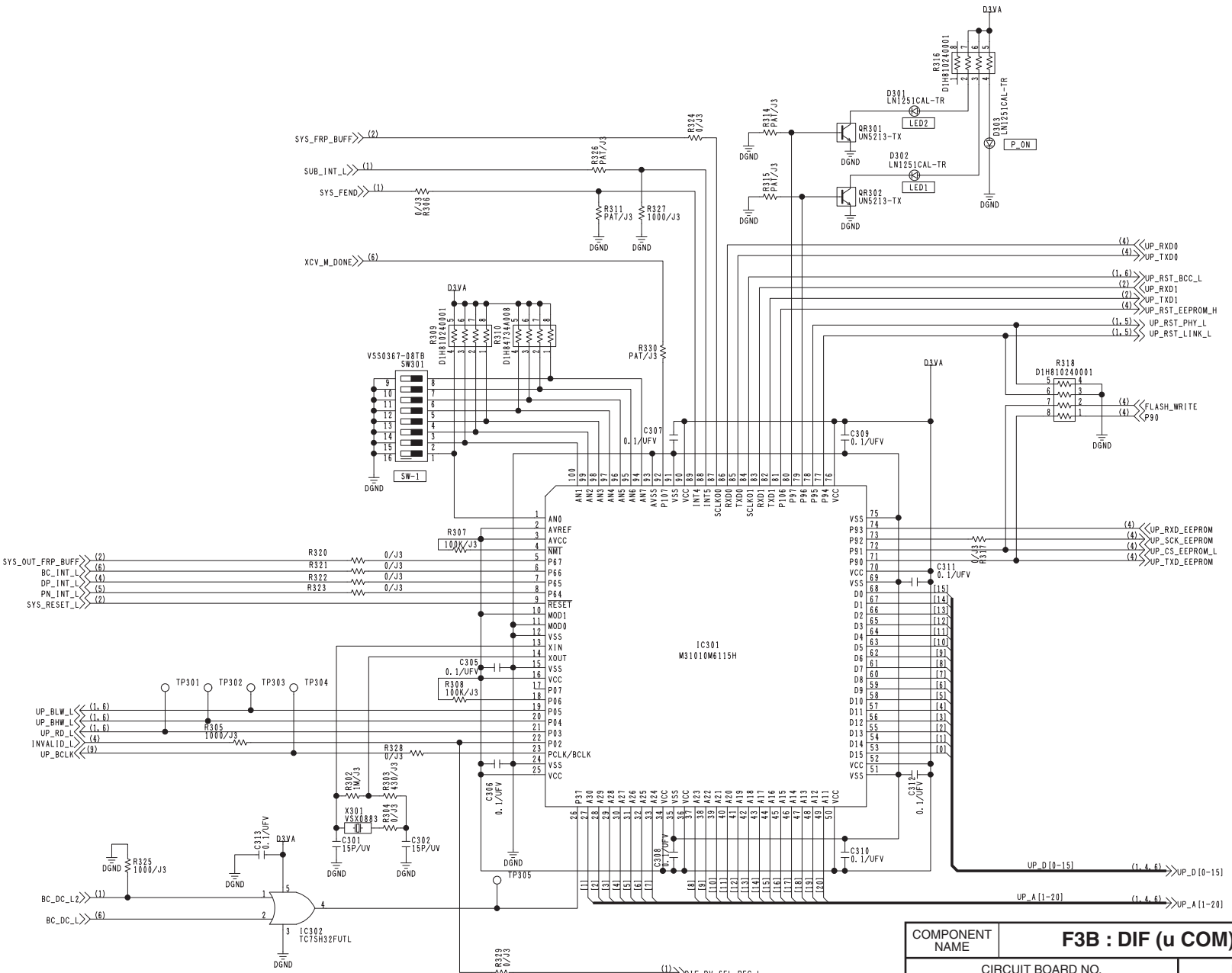
COMPONENT NAME	DIF JACK (1394 JACK)	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP80C21A		KR0Q49 (1/1)
		SCM148



COMPONENT NAME	F3B : DIF (MOTHER)	01/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP83559A		KR30093 (1/9)
		SCM149

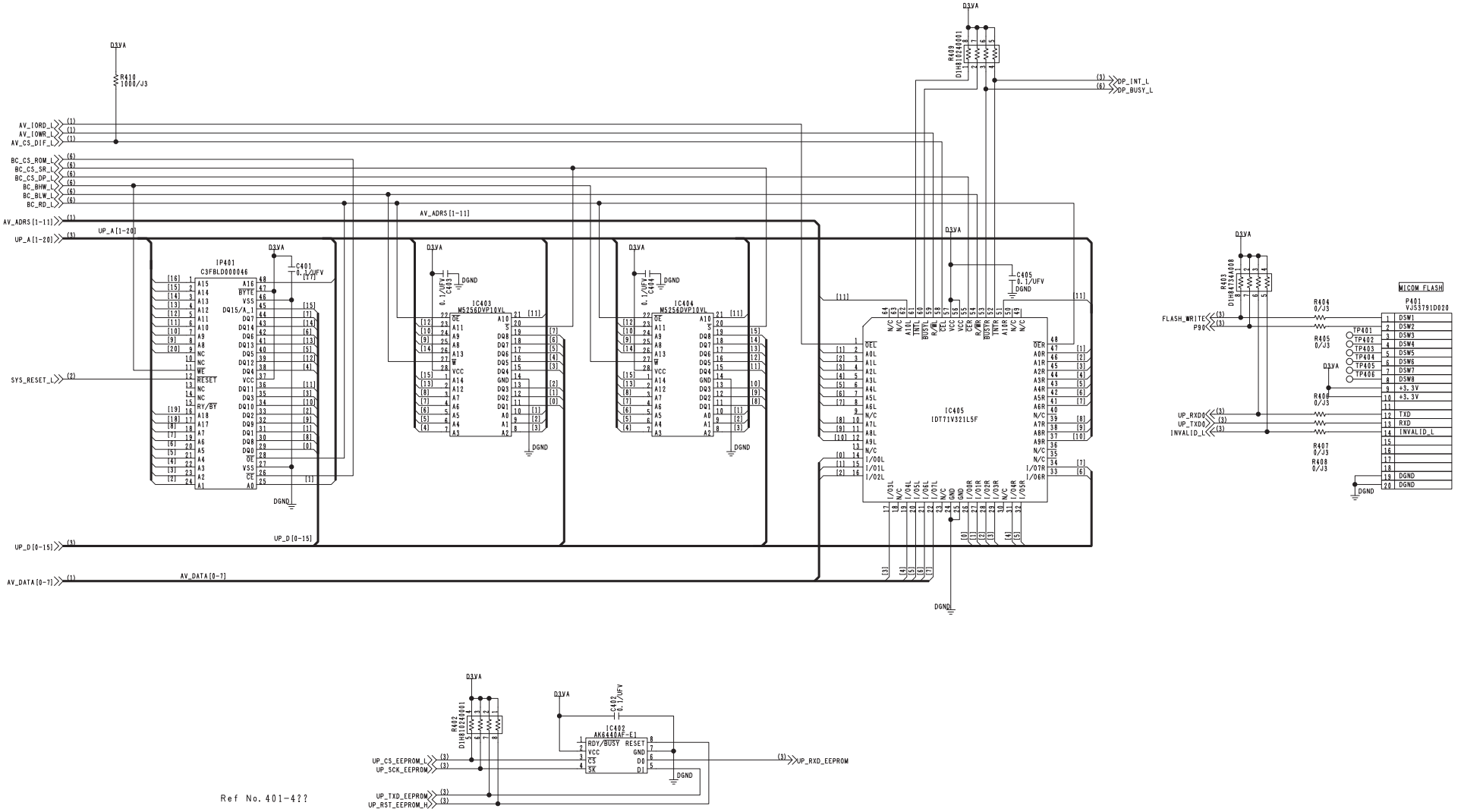


COMPONENT NAME	F3B : DIF (POWER BUFFER)	02/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP83559A		KR30093
		SCM150

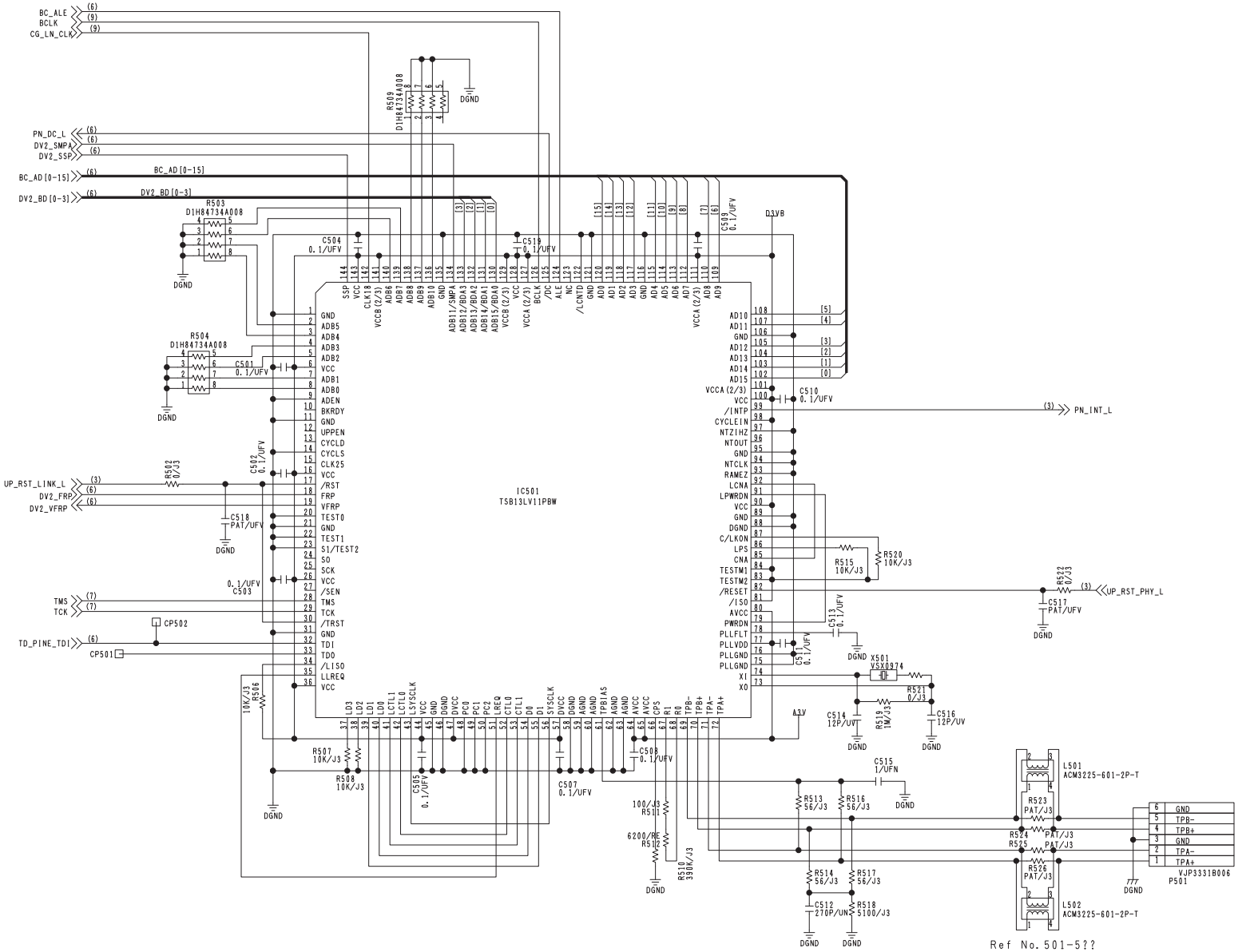


Ref No. 301-3??

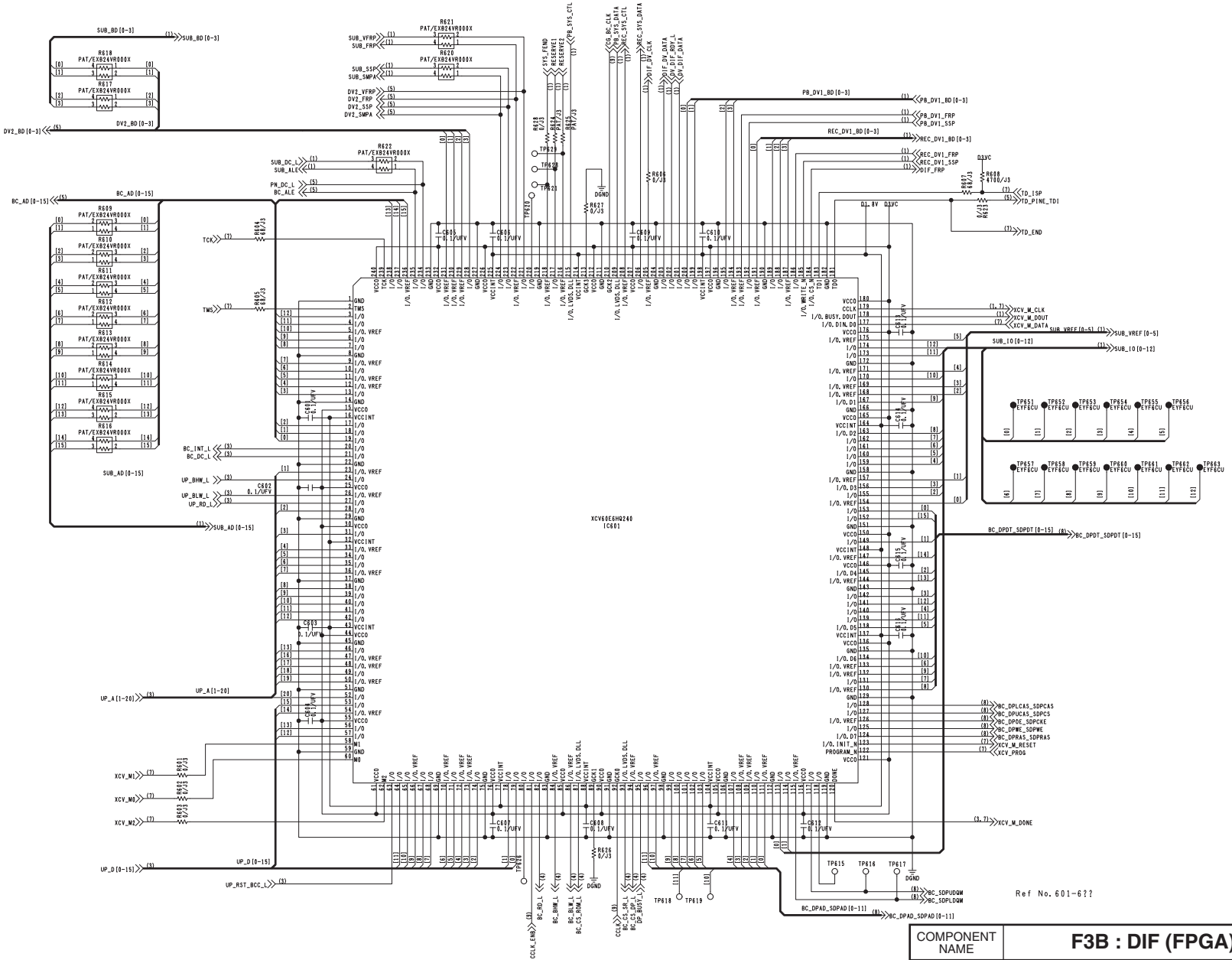
COMPONENT NAME	F3B : DIF (u COM)	03/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP83559A		KR30093 (3/9)
		SCM151



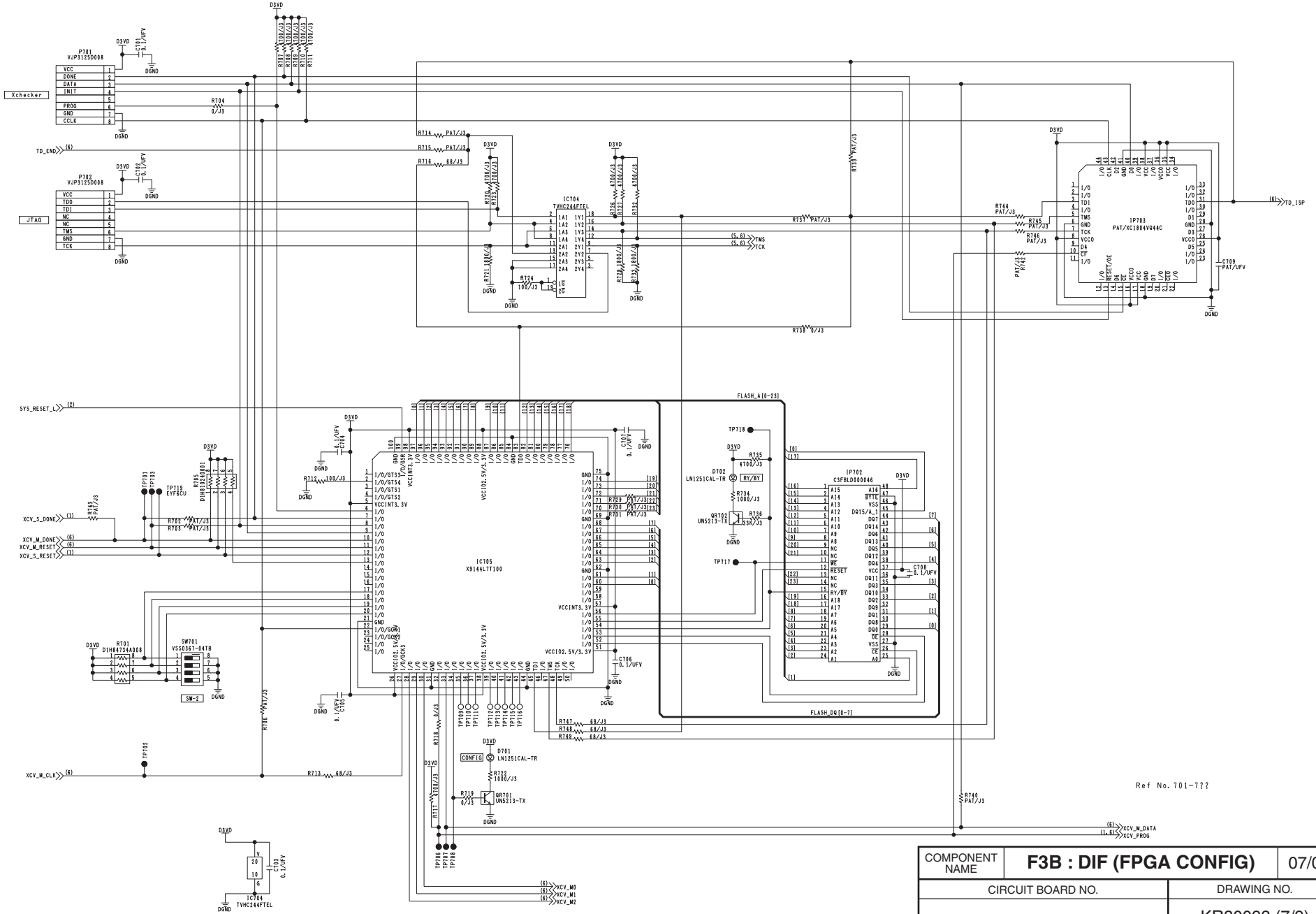
COMPONENT NAME	**F3B : DIF (uCOM MEMORY)**	04/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83559A	KR30093 (4/9)	
	SCM152	



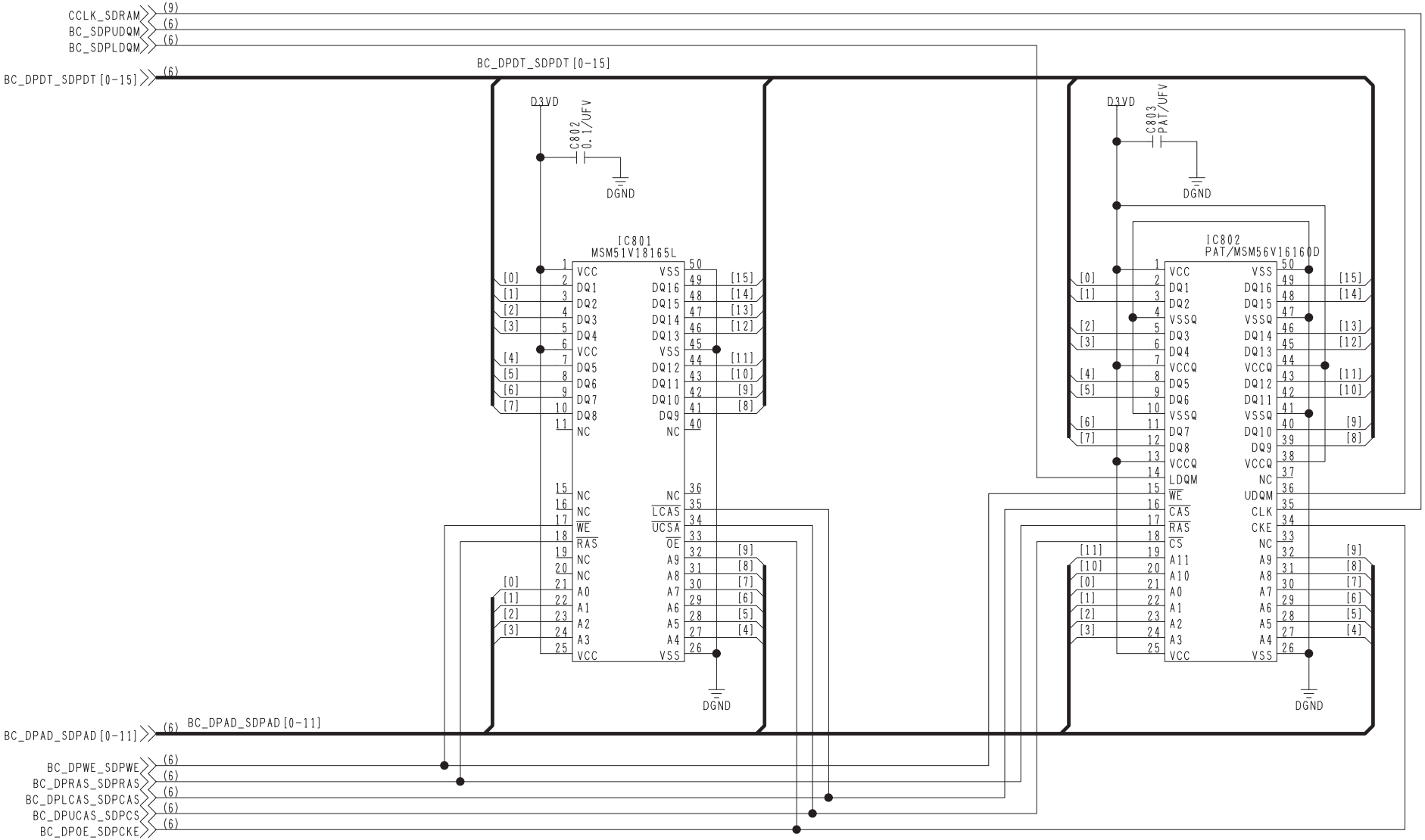
COMPONENT NAME	F3B : DIF (PINE)	05/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83559A	KR30093 (5/9)	
	SCM153	



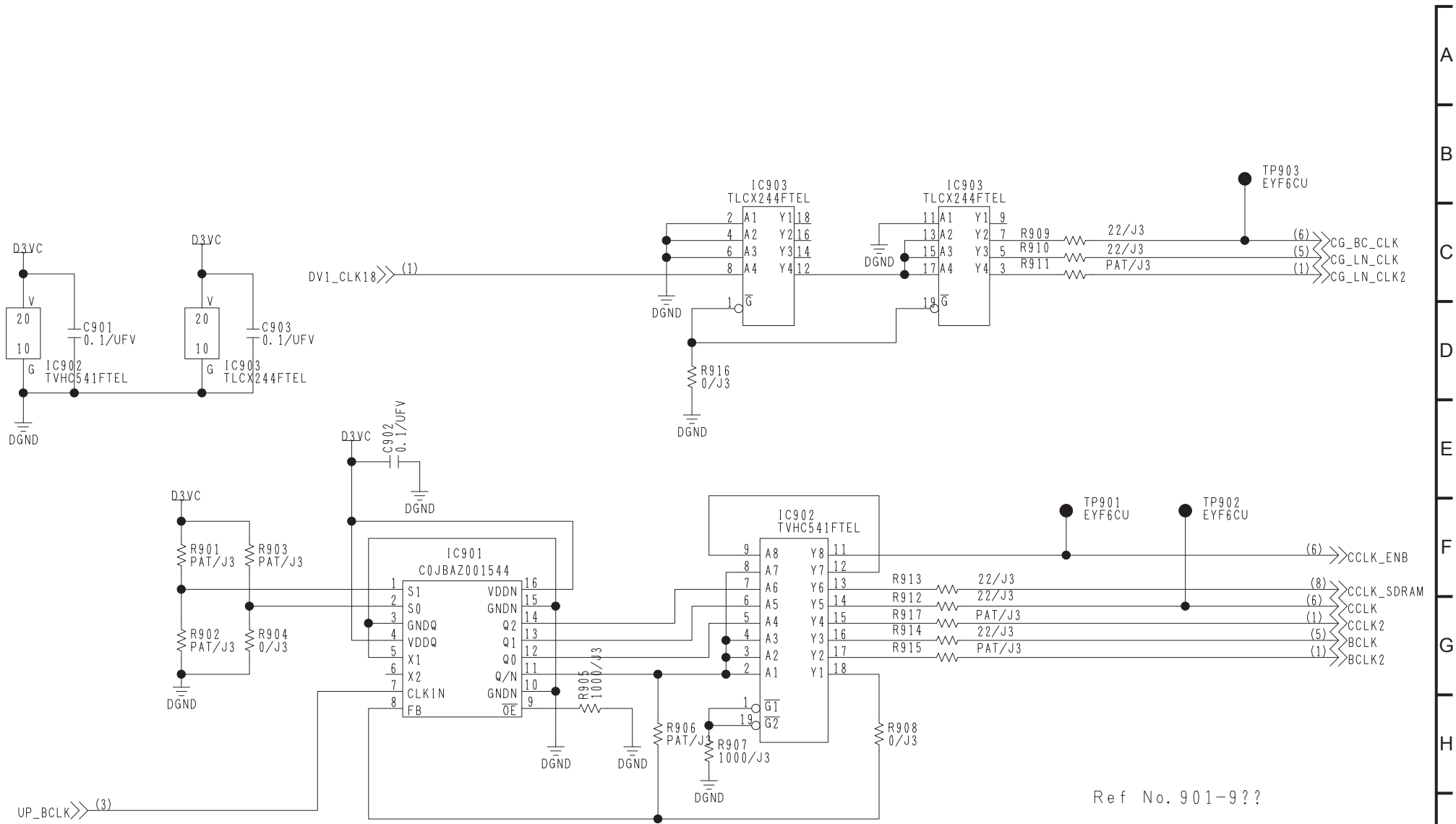
COMPONENT NAME	F3B : DIF (FPGA)	06/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP83559A		KR30093 (6/9)
		SCM154



COMPONENT NAME	F3B : DIF (FPGA CONFIG)	07/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP83559A		KR30093 (7/9)
		SCM155



COMPONENT NAME	F3B : DIF (FPGA DRAM)	08/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP83559A		KR30093 (8/9)
		SCM156



COMPONENT NAME	F3B : DIF (CLKGEN)	09/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP83559A		KR30093 (9/9)
		SCM157

SECTION 1

SERVICE INFORMATION

CONTENTS

1. SERVICING FIXTURES & TOOLS INF-1
2. Alignment Tape INF-4
   2-1. VFM3680KM / L (PAL) (25 M adjustment tape) INF-4
   2-2. VFM3681KM / L (PAL) (Manufacturer (LISTA) adjustment tape) INF-4
   2-3. VFM3682KM / L (PAL) (Manufacturer (X-value) adjustment tape) INF-4
   2-4. VFM3110EDS / L (PAL) (DV adjustment tape) INF-4
   2-5. VFM3000EDS / L (DV (LISTA) adjustment tape) INF-4
3. List of Recommended Measuring Instruments INF-5
4. Maintenance INF-6
   4-1. Maintenance Schedule INF-6
   4-2. Layout of the Maintenance Parts INF-7
   4-3. Layout of the Other Parts INF-7
5. Manual Tape Eject (Emergency Eject) INF-8
6. Cylinder Head Cleaning Method INF-9
   6-1. Cylinder Head Chips Cleaning Method: (Daily) INF-9
   6-2. Cylinder Lead Cleaning Method: (Weekly) INF-9
   6-3. A/C Head Cleaning Method: (Weekly) INF-9
   6-4. Pinch Roller and Capstan Shaft Cleaning Method:(Weekly) INF-9
   6-5. Post Cleaning Method: (Weekly) INF-9
7. DIAG-MENU Display INF-10
   7-1. DIAG-MENU Operation Method INF-10
   7-2. Hour Meter Display INF-11
   7-3. How to Reset the Hour Meter INF-11
8. Software Version Display INF-12
   8-1. Version Display Operation Procedure INF-12
   8-2. How to Read the Version Display INF-12
9. Software Version Upgrade Method INF-13
   9-1. Version Upgrade for the SERVO Microcomputer with Built-in Flash Memory INF-13
   9-2. E-PROM (SYSCON, IF, AV) Version Upgrade INF-15
   9-3. PLD Version Upgrade Procedure INF-15
10. Error Rate Display and Confirmation Method INF-25
11. Internal Switch Setting Method INF-26
12. Internal LED Indication INF-26
13. Service Menu INF-27
   13-1. Service Menu Operation Method INF-27
   13-2. DEFAULT Operation INF-28
   13-3. Service Menu Contents INF-29
   13-4. SET-UP Menu Initialization INF-41
14. Notes on Removal of PCB F3A, F3B, F8 ..... INF-42
15. Auto OFF mode INF-43
16. Circuit board layout drawing INF-45
17. AJ-YAD455P Service Information INF-46
   17-1. Node Unique ID (UID) number Setting Procedure INF-46
   17-2. Version Upgrade for Flash Memory INF-47
   17-3. PLD Version Upgrade Procedure INF-50

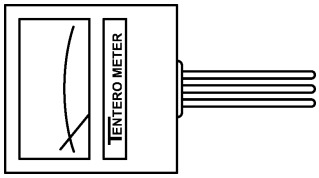
1. SERVICING FIXTURES & TOOLS

NO	NEW	PART NO.	FIXTURE & TOOL NAME	REMARKS
1		VFK1145A	Back Tension Meter	
2		VFK1149A	Post Driver	
3		VFK71A	Dial Torque Gauge (1.5 cN·m)	150 g
4		VFK1191A	Dial Torque Gauge (0.45 cN·m)	45 g
5		VFK1152	Dial Torque Gauge Adapter	
6		VFK0357	Eccentric Screwdriver (1.5 mm)	
7		VFK1154	Post Height Fixture	
8		VFK1153	Mech. Neutral Plate	
9		VFK1155	REV Position Tool (silver)	
10		VFK1156	PLAY Position Tool (black)	
11		VFK1208	Neutral Position Tool (black with hole)	
12		VFK1150	Nut Driver (5.5 mm)	
13		VFK1151	Nut Driver (2.5 mm)	
14		VFK1188A	Dial Tension Gauge	
15		VFK0948A	Check Light	
16		VFK0749	Froiral Grease (white)	for plastics part
17		MOR265	Morlytone Grease (black)	for metal part
18		VFK1146	Philips Driver (Fine) (00-75)	
19		VFK1147	Philips Driver (Fine) (00-100)	
20		VFK1148	Hex. Driver (1.5 mm)	
21		VFK1178	Hex. Driver (0.89 mm)	
22		VFK1179	Hex. Driver (0.71 mm)	
23		VFK1190	Hex. Wrench	
24		VFK1209A	Torque Driver (4 cN·m-30 cN·m)	0.4 kgf·cm –3 kgf·cm
25		VFK1375	Post Axis Driver (1.5 mm)	
26		VFK1300	A/D Board (DAQ-12 Quatech)	
27		VFM3680KM	DVCPRO Alignment Tape (No.1) for NTSC	or VFM3680KL
28		VFM3681KM	DVCPRO Alignment Tape (No.2) for NTSC	or VFM3681KL
29		VFM3682KM	DVCPRO Alignment Tape (No.3) for NTSC	or VFM3682KL
30		VFM3110EDS	DV Alignment Tape (Color Bars) for NTSC	
31		VFM3100EDS	DV Alignment Tape for LISTA	
32		AJ-CL12MP	Cleaning Tape	SALES Route
33		VFK1423	Tape Beg./End Detection Cassette	
34		VFK1192	F Extender Board	
35		VFK1496	Extender Board	
36		VFK1481B	LISTA Software	
37		VFK1186	LISTA Cable	
38		VFK1503	Servo Version up Software	
39		VFK1590	C PLD Writer	
40		VFK1304A	Flash Memory Version up Tool	
41		VFK0906	Lubrication Oil	
42		VZZ0095	Cleaning Cloth	
		-----	EE Cleaner	Camera/Electrical Appliances mass merchandisers

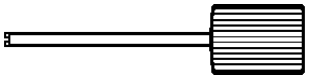
<Information>

DVCPRO MENU DUPLICATOR software (VVCS102A1KIT) is available.
This software is for back-up and/or upload SETUP MENU DATA (SYSTEM & USER1-5) with PC.
If you need to make same setting for plural VTRs, MENU DUPLICATOR is very useful and very easy to make it. And also when you swap the VTR for repair or maintenance, no need to remember setting.

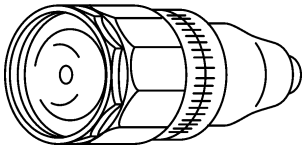
1 **VFK1145A**
Back Tension Meter



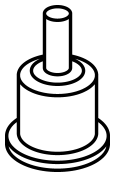
2 **VFK1149A**
Post Driver



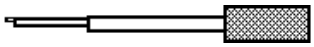
3 **VFK71A**
4 **VFK1191A**
Dial Torque Gauge



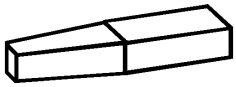
5 **VFK1152**
Dial Torque Gauge Adapter



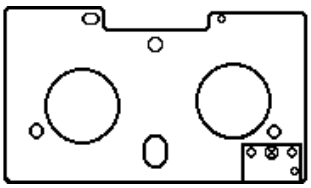
6 **VFK0357**
Eccentric Screwdriver (1.5 mm)



7 **VFK1154**
Post Height Fixture



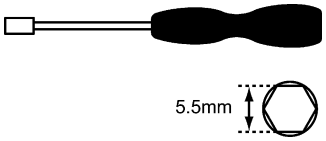
8 **VFK1153**
Mech. Neutral Plate



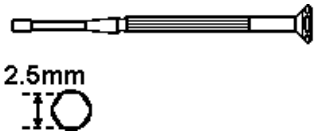
9 **VFK1155** **(REV/Silver)**
10 **VFK1156** **(PLAY/Black)**
11 **VFK1208**
(Neutral/Black with hole)
Position Tool



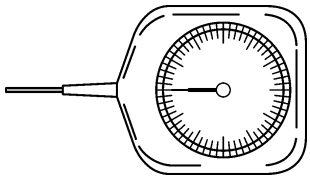
12 **VFK1150**
Nut Driver (5.5 mm)



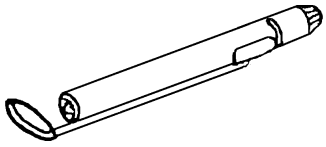
13 **VFK1151**
Nut Driver (2.5 mm)



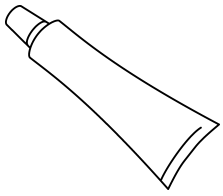
14 **VFK1188A**
Dial Tension Gauge



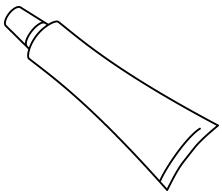
15 **VFK0948A**
Check Light



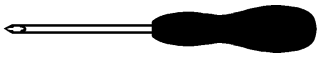
16 **VFK0749**
Froiral Grease (for plastics)



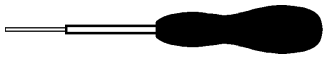
17 **MOR265**
Morlytone Grease (for metal)



18 **VFK1146 (00X75)**
19 **VFK1147 (0X100)**
Philips Driver (Fine)



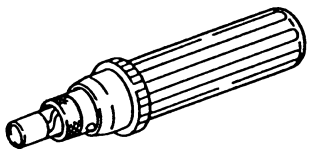
20 **VFK1148 (1.5 mm)**
21 **VFK1178 (0.89 mm)**
22 **VFK1179 (0.71 mm)**
Hex. Driver



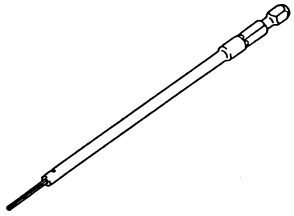
23 **VFK1190 (1.5 mm)**
Hex. Wrench



24 **VFK1209A**
Torque Driver



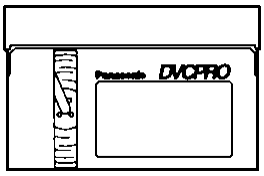
25 **VFK1375**
Post Axis Driver (1.5 mm)



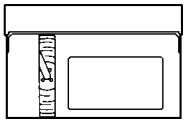
26 **VFK1300**
A/D Board (Quatech DAQ-12)



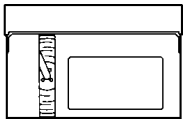
27 **VFM3680KM or L**
28 **VFM3681KM or L**
29 **VFM3682KM or L**
DVCPRO
Alignment Tape



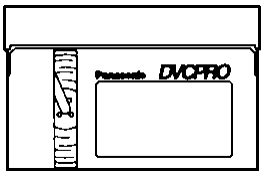
30 **VFM3110EDS**
DV Alignment Tape
(Color Bars) (NTSC)



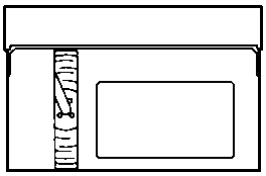
31 **VFM3100EDS**
DV Alignment Tape
(LISTA)



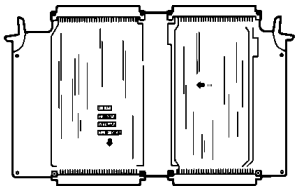
32 **AJ-CL12MP**
Cleaning Tape



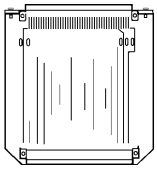
33 **VFK1423**
Tape Beg./End
Detection Cassette



34 **VFK1192**
F Extender Board

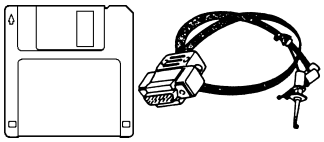


35 **VFK1496**
Extender Board

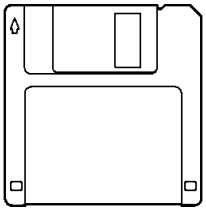


36 **VFK1481B**
LISTA Software

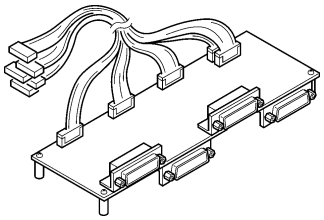
37 **VFK1186**
LISTA Cable



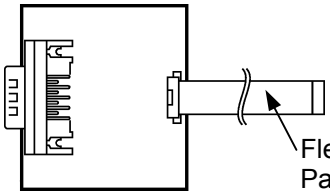
38 **VFK1503**
Servo Version up
software



39 **VFK1590**
C PLD Writer

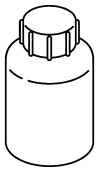


40 **VFK1304A**
Flash Memory Version up Tool
（VFK1304 includes the flexible
cable ”VWJ20E5500L0”）

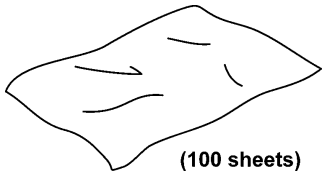


Flexible cable
Part No.: VWJ20E5500L0

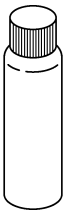
41 **VFK0906**
Lubrication Oil



42 **VZZ0095**
Cleaning Cloth



43 **-----**
EE Cleaner



2. Alignment Tape

2-1. VFM3680KM / L (PAL) (25 M adjustment tape)

TIME	VIDEO		PCM AUDIO		CUE	
(min.)	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color bar 100%	Video level Confirmation	1KHz –18dB	Confirmation of the audio level	1KHz Reference Level	Cue Level Confirmation
10:00	H Sweep	Frequency Response				
14:00	Area Markers	Video start timing			6KHz Reference Level	A/C head Azimuth Adjustment
18:00	Bow tie (500K)	Y/C timing				
22:00	Pulse & bar	Y/C timing			1KHz 300KHz-6KHz	Frequency Response
26:00 30:00	Multi Pulse	Y/C timing	-----	-----	-----	-----

2-2. VFM3681KM / L (PAL) (Manufacturer (LISTA) adjustment tape)

TIME	VIDEO		PCM AUDIO		CUE	
(min.)	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	ITI pattern	Linearity adjustment	-----	-----	-----	-----

2-3. VFM3682KM / L (PAL) (Manufacturer (X-value) adjustment tape)

TIME	VIDEO		PCM AUDIO		CUE	
(min.)	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color bar (75%) (with drop-out track)	X-value adjustment	-----	-----	6KHz 10VU	X-value adjustment

2-4. VFM3110EDS / L (PAL) (DV adjustment tape)

TIME	VIDEO		PCM AUDIO		CUE	
(min.)	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color bar	EQ adjustment	1,102.5KHz		-----	-----

2-5. VFM3000EDS / L (DV (LISTA) adjustment tape)

TIME	VIDEO		PCM AUDIO		CUE	
(min.)	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	LISTA signal	Adjustment of the linearity	-----	-----	-----	-----

3. List of Recommended Measuring Instruments

MODEL NO. (Example)	NAME	REMARK
TSG1411	PAL analog composite signal generator (with CF OUT)	Tektronix
1761 (op. SC) or 1781R	SCH meter	
	Waveform monitor	
	Vector scope	
	Oscilloscope	
	Digital voltmeter (D.V.M.)	
	Frequency counter	
	Audio noise meter	
	Audio analyzer	
	Spectrum analyzer	

4. Maintenance

4-1. Maintenance Schedule

Maintenance is done by periodically performing suitable maintenance servicing in order to maintain the functions always in the best condition, so that the user can use the equipment safely. Video equipment with mounted mechanisms uses wear parts, and their wear and deterioration causes troubles. Dust and dirt also can impair stable operation. For this reason it is important not to just perform repair at the time of trouble, but also to perform suitable maintenance at regular intervals.

	Part name	Part No.	Hours of use (unit: hours)				
			Every 1000	3000	6000	9000	12,000
-	Cleaning of the travel system	-----	C: Every 500 hours				
-	Mechanical chassis unit	VXY1631Z1					R
1	Cylinder Unit	VEG1498		R	R	R	IM
2	Pinch Arm Unit	VXL2835		R, G	R, G	R, G	IM
3	Cleaning Arm Unit	VXL2748	R, Y	R, Y	R, Y	R, Y	IM
4	S-Reel Motor Unit	VEM0686			R		IM
5	T-Reel Motor Unit	VEM0687			R		IM
6	Thrust Screw Unit	VXQ0556			R, L		IM
7	Mode SW Unit	VES0929			R		IM
8	S1 Loading Arm Unit	VXL2709					IM
9	T1 Boat Unit	VMD2533					IM
10	S5 Post Base Unit	VXA6052					IM
11	Tension Arm Unit	VXL2831					IM
12	A/C Head	VED0419					IM
13	Loading Motor (1) Arm Unit	VEM0645					IM
14	Reel Drive Motor Unit	VEM0585					IM
15	Pinch Solenoid	VSJ0227					IM
16	S Brake Solenoid	VSJ0216					IM
17	T Brake Solenoid	VSJ0216					IM
18	Distinction SW Unit	VXA6199					IM
19	Cleaner Solenoid	VSJ0226					IM
20	Main Cam Gear	VDG1168					IM
21	M Stopper Brake Solenoid	VSJ0216					IM
22	Front-loading unit	VXA6070					R
23	Front Loading Motor	VXA5597					F
24	Fan motor	L6FALEFH0007	Exchange after every 10,000 h of energization				

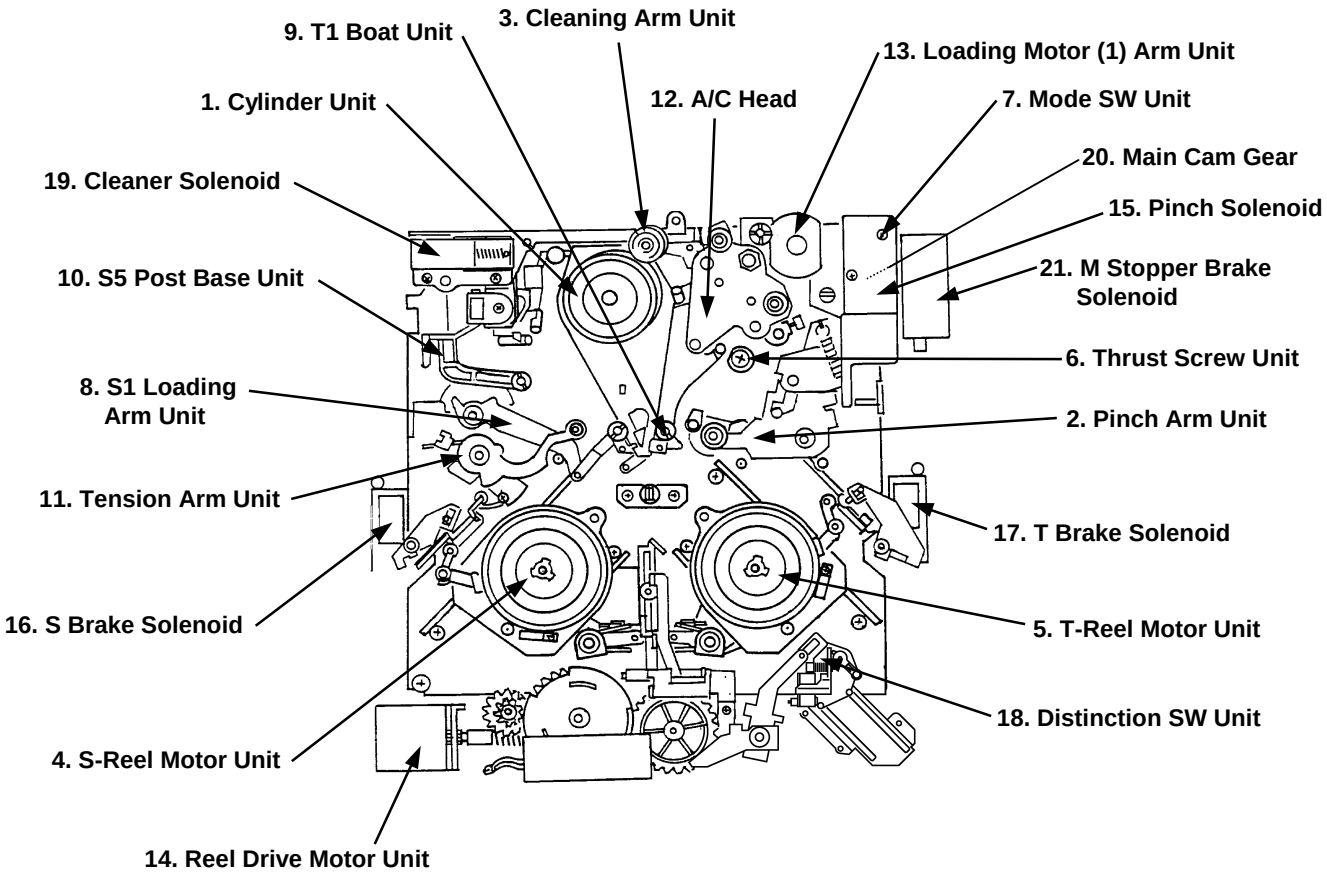
Replacement of the mechanical chassis unit is recommended for the 12,000 h maintenance.

C : Perform cleaning.
R : Assembly subject to exchange.
Y : The timing of replacement with Cleaning Arm Unit, either 1000 hours or 1 year as timing come earlier.
G : At the time of exchange, wipe off the old grease and apply new grease. (Morlytone grease)
L : Lubrication is necessary.
IM : Included in the mechanical chassis unit. When the mechanical chassis unit is not exchanged, exchange as a single part is required.
F : Included in the front-loading unit.

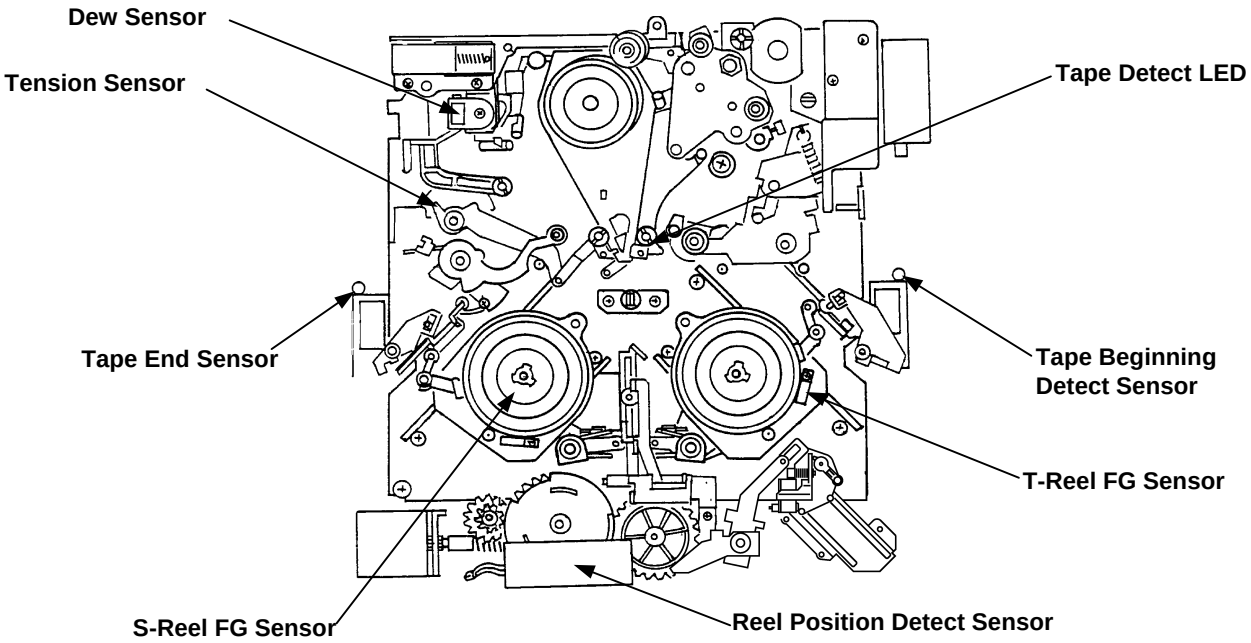
<Note:>

The Hours of use indicates the cylinder rotation time (DRUM RUN).
The maintenance execution time shown in the chart is recommendation for standard maintenance execution. This is not the life of the various parts. The life is influenced by temperature, humidity, dust, etc.
Please refer to the most recent execution outline, as the maintenance specifications and the part numbers may change.

4-2. Layout of the Maintenance Parts



4-3. Layout of the Other Parts



5. Manual Tape Eject (Emergency Eject)

When a tape can not be ejected by normal operation due to some trouble, the tape can be removed manually as follows.

1. Turn off power and remove the top Case Unit.
2. Rotate the red plastic screw by a Phillips-head screwdriver counterclockwise pushing the screw. It needs to rotate until Post starts moving. (about 30 times rotation).

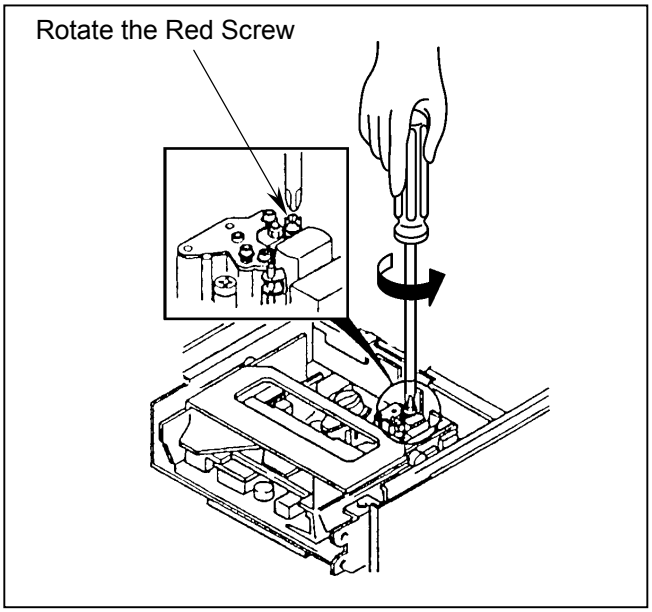


Figure 5-1. Post unloading

3. Since tape slack will occur when the post is unloaded, rotate the supply reel to wind up the tape.
   How to wind up the tape (see Figure 5-2)
   a. Insert the rubber side of the take-up jig to the cassette rid opening position from mechanism side.
   b. Turn the flange of the supply reel in the direction of winding to eliminate the tape slack. (Take care not to damage the tape in the process.)

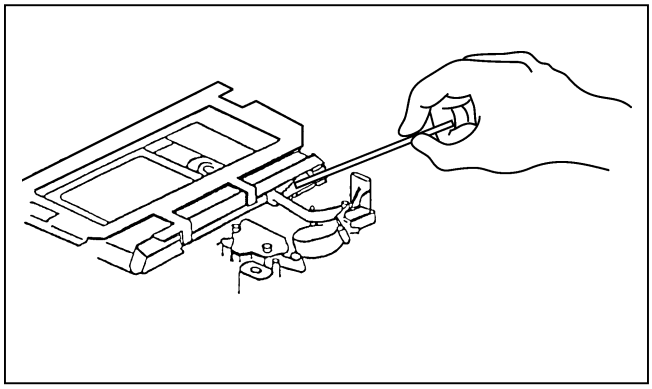


Figure 5-2. Rotate the S Reel

4. Repeat item 2 and 3 until the tape in wound up completely inside of the cassette.
5. When the tape is completely gotten inside of the cassette, rotate the red screw in front of the worm gear of the cassette down motor clockwise by a philips-head screwdriver pushing the screw. Remove the cassette with care not to pinch the tape by cassette rid when it is closed.

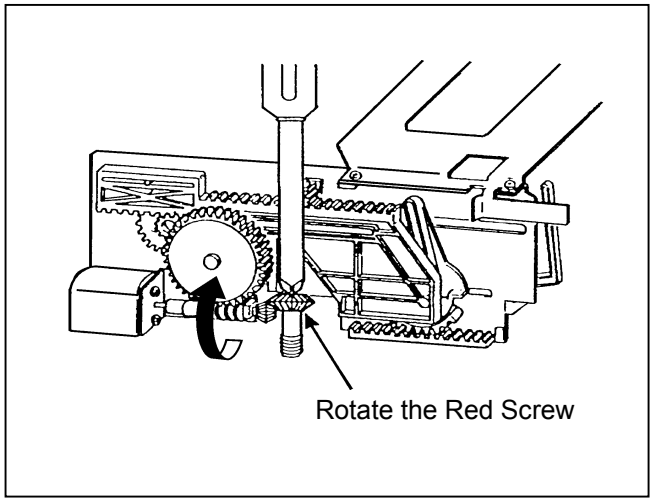
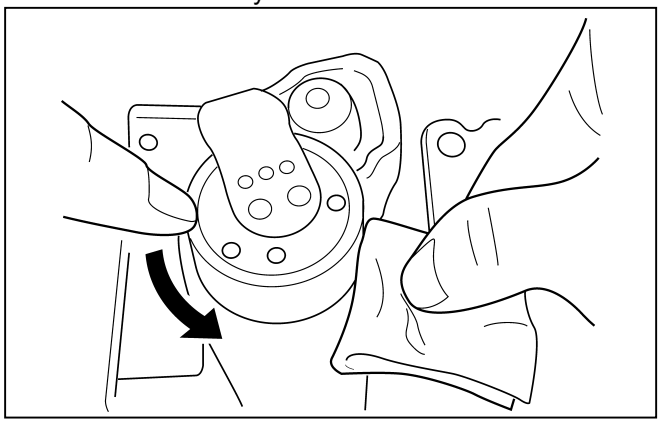


Figure 5-3. Cassette unloading

6. Cylinder Head Cleaning Method

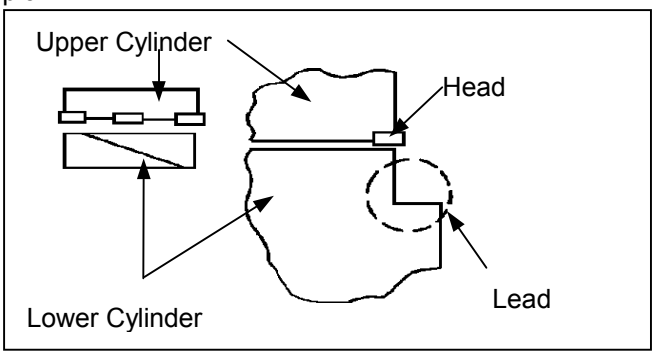
6-1. Cylinder Head Chips Cleaning Method: (Daily)

1. Turn off Power.
2. Dip cloth into De-natural Alcohol.
3. Press cleaning cloth gently against Cylinder Head. Using your finger on the top edge of the upper cylinder, rotate the cylinder counter-clockwise several times to clean.
4. Repeat cleaning procedure until all residue is removed from Cylinder Head.



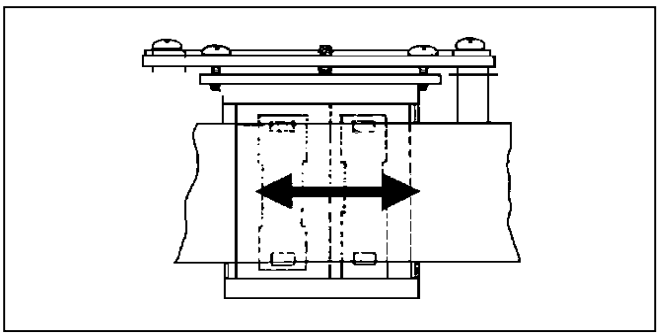
6-2. Cylinder Lead Cleaning Method: (Weekly)

Don't touch a head chip. Clean the drum lead with a pick.



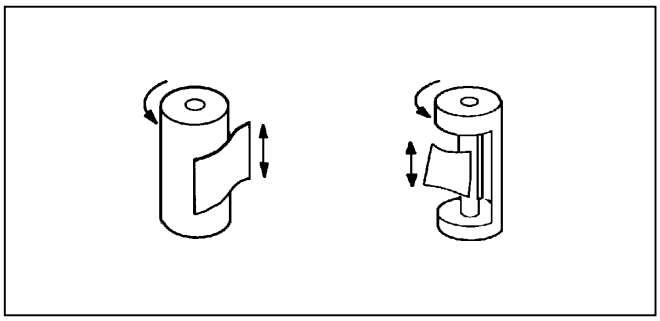
6-3. A/C Head Cleaning Method: (Weekly)

Wipe the A/C head with a cloth dipped in cleaning liquid. Wipe again with a dry cloth.



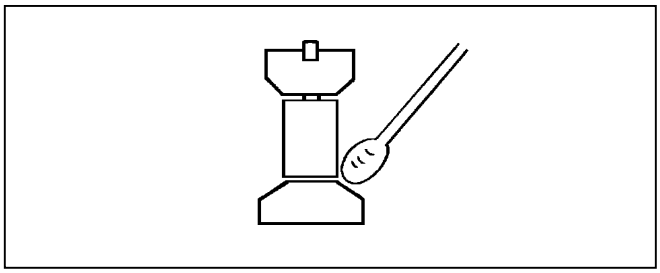
6-4. Pinch Roller and Capstan Shaft Cleaning Method:(Weekly)

Wipe the Pinch Roller and Capstan with a cloth dipped in cleaning liquid.



6-5. Post Cleaning Method: (Weekly)

Wind a cloth on a pick. Wipe each posts with that pick. Wipe again with a dry cloth. For metal posts wipe with a cloth dipped in cleaning liquid. Then wipe it again with dry cloth.

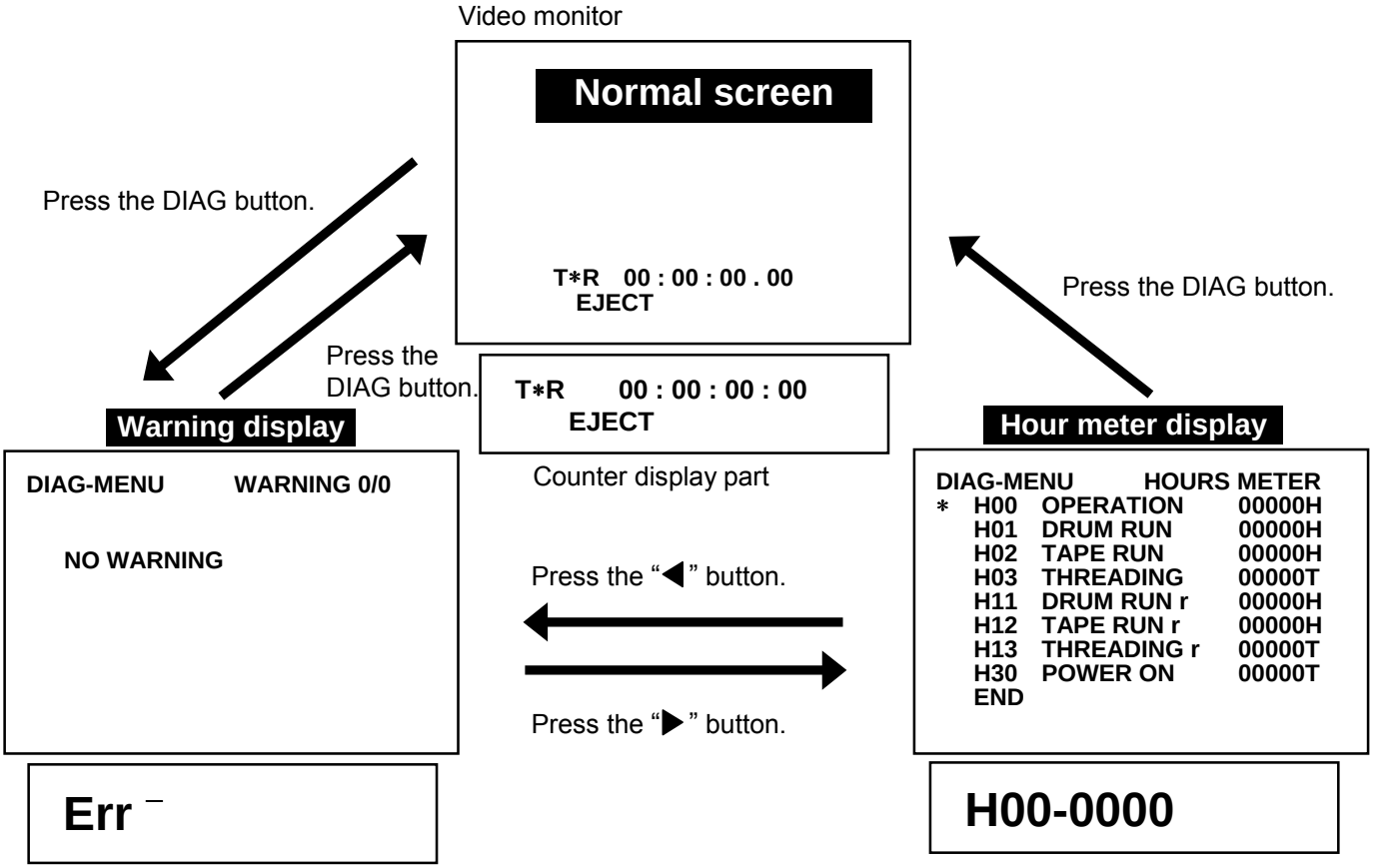


7. DIAG-MENU Display

The **DIAG-MENU** is the menu for investigating the status of the VTR, and it has the warning display (WARNING) and the hour meter display (HOURS METER).

7-1. DIAG-MENU Operation Method

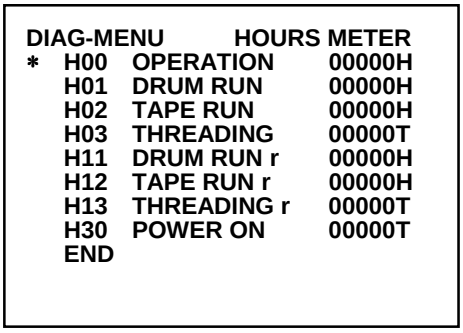
1. Press the "**DIAG**" button."**DIAG-MENU**" will be displayed on the video monitor (VIDEO OUT 3) and on the counter display (front panel).
2. The display switches between the warning information and the hour meter information each time when the "◀ ▶" is pressed.
3. When the "**DIAG**" button is pressed again, it returns to the normal screen.



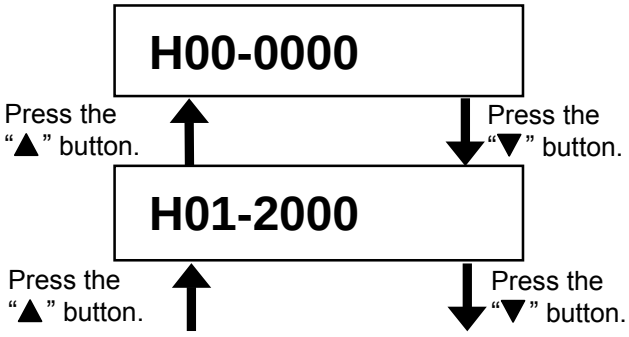
Please refer to operating instructions, in regard to the WARNING display (information).

7-2. Hour Meter Display

1. When the "▼" and "▲" button is pressed during hour meter display, the operation hours for each item can be confirmed on the counter display part (front panel).



Video monitor

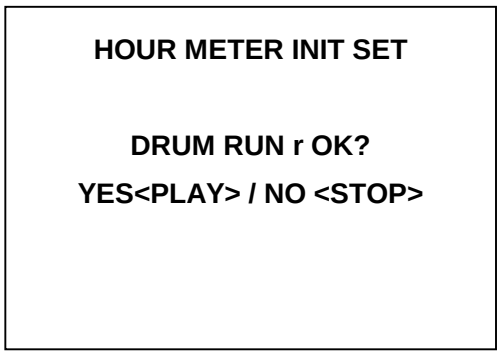


Counter display part (front panel)

7-3. How to Reset the Hour Meter

DRUM RUN, TAPE RUN and THREADING information can be reset individually.

1. Press the "EJECT" and "STOP" button simultaneously, and press the "DIAG" button. The Hour Meter page is displayed on the video monitor (VIDEO OUT 3).
2. Set the cursor "*" to the indicated "r" mark item(item H11,12 or 13) by pressing the cursor buttons (▲ or ▼). And press "RESET" button on the front panel, then the following message appears on the screen.



3. Press "PLAY" button to reset the hour meter or "STOP" button to ignore the reset.

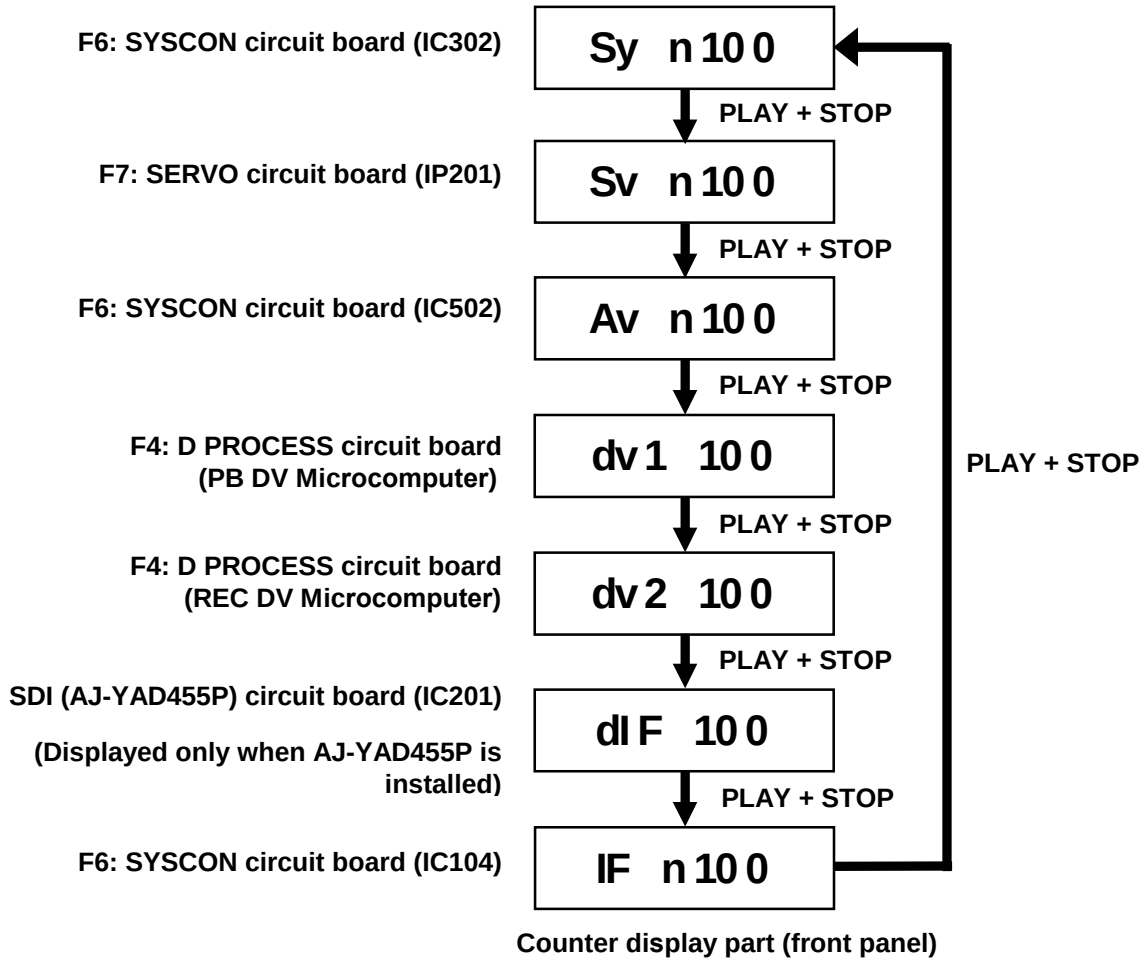
<Note>

Be careful, if press the "RESET" button more than 2 seconds when select the item H00-H03 and H30, the all hour meter information are reset to ZERO.

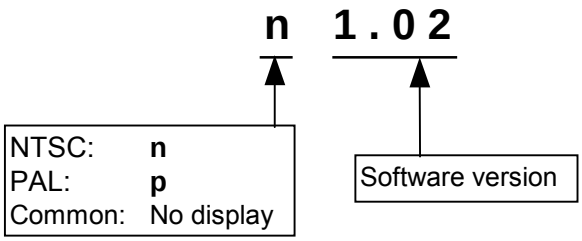
8. Software Version Display

8-1. Version Display Operation Procedure

1. Press the "**EJECT**" button. (If a tape is inserted, eject it.)
2. When the "**PLAY**" button and the "**STOP**" button are pressed simultaneously, the version will be displayed on the counter display part (front panel) while these buttons are being pressed.
3. When the "**PLAY**" button and the "**STOP**" button are pressed again, the software version for each item can be confirmed.



8-2. How to Read the Version Display

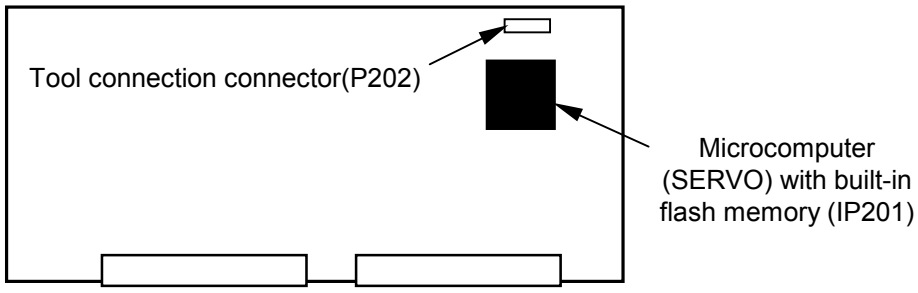


9. Software Version Upgrade Method

9-1. Version Upgrade for the SERVO Microcomputer with Built-in Flash Memory

The SERVO microcomputer of the **F7: SERVO** circuit board has a built-in flash memory. For the software version up, connect the "**Flash memory version up tool (VFK1304A)**" to the tool connection connector and use the "**Servo version up software (VFK1503)**" according to the following procedure.

F7: SERVO circuit board



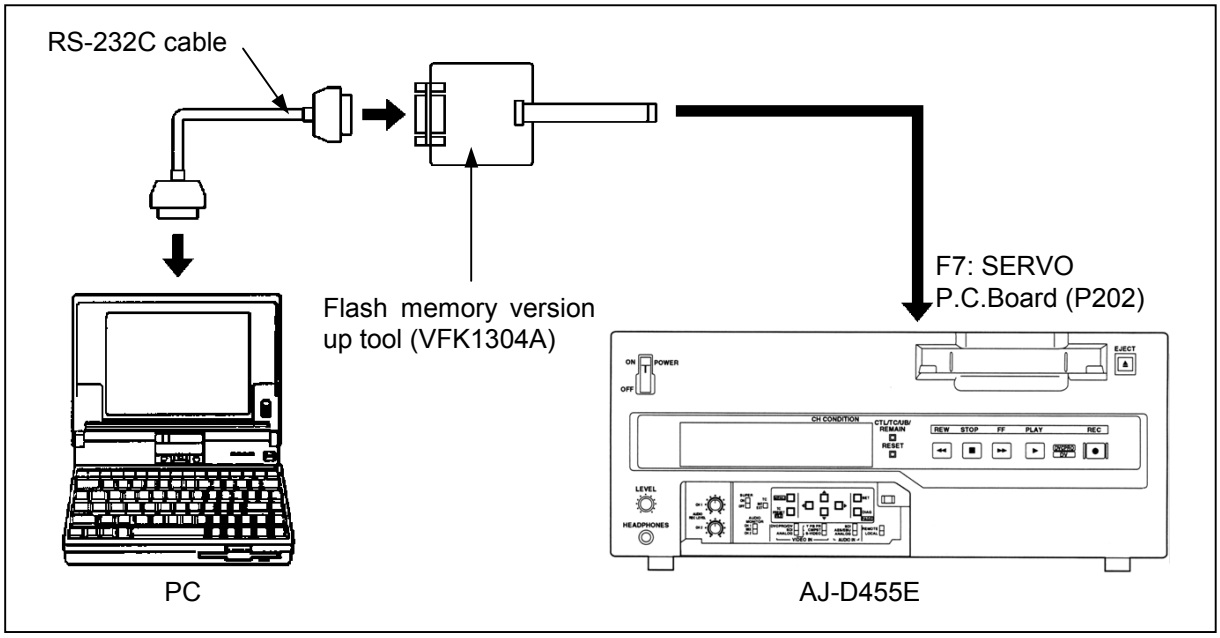
1. Prepare a personal computer (MS-DOS, Windows 95 or 98).
2. Copy the servo version up software (VFK1503) and the new servo microcomputer software into the same directory of the personal computer. (The following four types of software.)

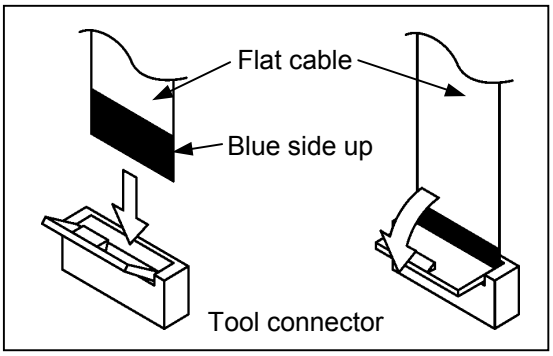
Version up software (VFK1503)	**"fw103u.exe"**
Servo microcomputer software	**"vsiXXXX.obf"**
	"vsiXXXX.bat"
	"vsiXXXX.ex"

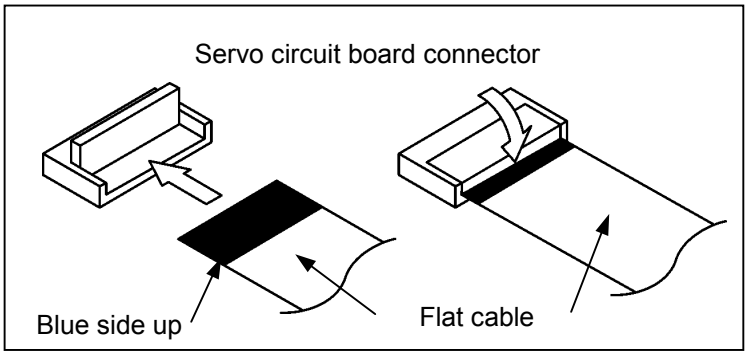
3. Confirm the switch settings for the "Flash memory version up tool (VFK1304A)".

SW1-1: ON	**SW1-3: OFF**
SW1-2: ON	**SW1-4: OFF**

4. Connect the AJ-D455E, the "Flash memory version up tool (VFK1304A)", and the personal computer as shown below. Pay attention not to confuse the connection direction (rear, front) for the flat cable of the tool (VFK1304A).







5. Turn on the AJ-D455E power.
6. Execute the "**VSIXXX.bat**" copied to the personal computer. It also can be done directly on Windows. (During execution, the file "servo.exe" will be created, but this may be left in the directory without any problems.)
7. When the following screen is displayed, enter "Y" and press "**ENTER**". (During program writing, the progress is shown on the display of the personal computer.)

```
/=== MN103004 FLASH ROM VERSION UP SOFTWARE ===/

        1 file(s) copied

/=== Initializing ===/
Could not record flash memory exchange record.
Do you continue ? Y/N > Y_
```

8. Writing is completed when the following screen appears.

```
fw103> #--- âtâëâbâVâàé¦¸Rææ½ìRé▌é≡änéⁿé▄éπ ---
fw103> load servo.ex
Ex format file analysis ...
start loading

Zero writing before erase .
Erase block .
0x00002000 - 0x00003fff writing
0x00004000 - 0x00005fff writing
0x00006000 - 0x00007fff writing
0x00008000 - 0x00009fff writing
0x0000a000 - 0x0000bfff writing
0x0000c000 - 0x0000dfff writing
0x0000e000 - 0x0000ffff writing
0x00010000 - 0x00011fff writing
0x00012000 - 0x00013fff writing
0x00014000 - 0x00015fff writing
0x00016000 - 0x00017fff writing
0x00018000 - 0x00019fff writing
0x0001a000 - 0x0001bfff writing
0x0001c000 - 0x0001dfff writing

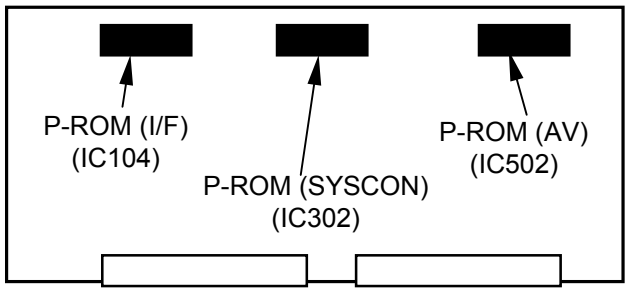
Load finished
fw103> q
```

9. Turn off the AJ-D455E power and disconnect the cables connected.

9-2. E-PROM (SYSCON, IF, AV) Version Upgrade

The **F6: SYSCON** circuit board use an E-PROM (SYSCON, I/F, AV).
For the software version up, replace an E-PROM with the new version.

F6: SYSCON circuit board



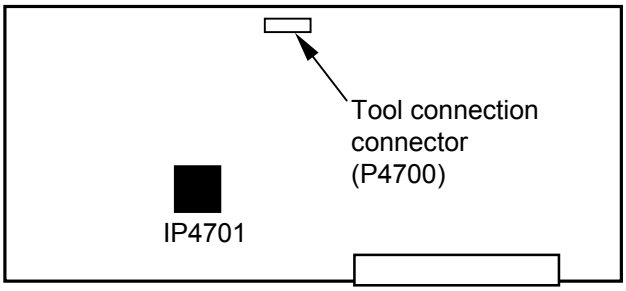
9-3. PLD Version Upgrade Procedure

The AJ-D455E uses **PLDs**. At the time of a version upgrade, use the special tool, connect the respective connection connectors, and use the PLD writing software.

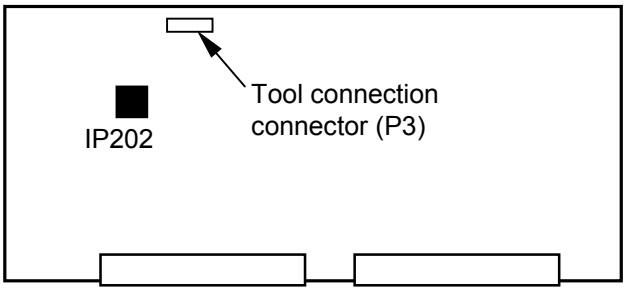
9-3-1. PLD Chart

Circuit board name	Connector	Number of pins'	PLD No.	PLD maker	Use quantity
F1: AUDIO	P4700	8P	EPM3256A1410	ALTERA	1
F2: V OUT	P3	8P	EPC2TC32	ALTERA	1
F3A:SDI(AJ-YA455P)	P3500	8P	XC1801VQ44C	XILINX	1
F4: D PROCESS	P3101	8P	EPC2TC32	ALTERA	2
F5: V IN	P3002	8P	EPC2TC32	ALTERA	1
F7: SERVO	P300	8P	EPM3256A1410	ALTERA	1

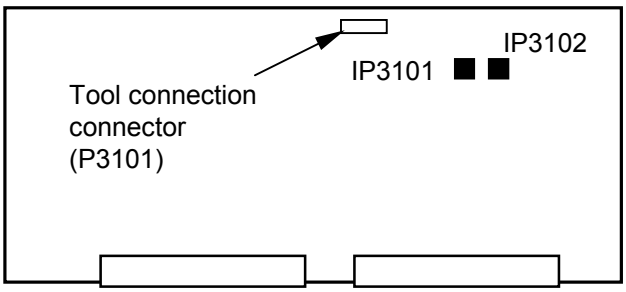
F1: AUDIO circuit board



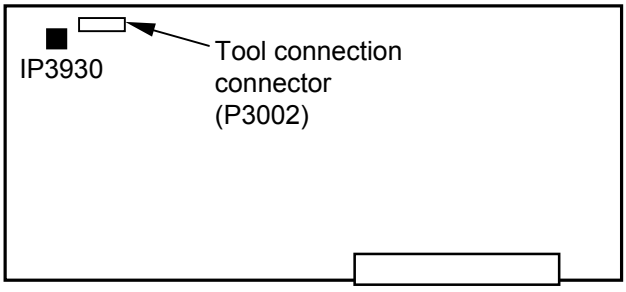
F2: V OUT circuit board



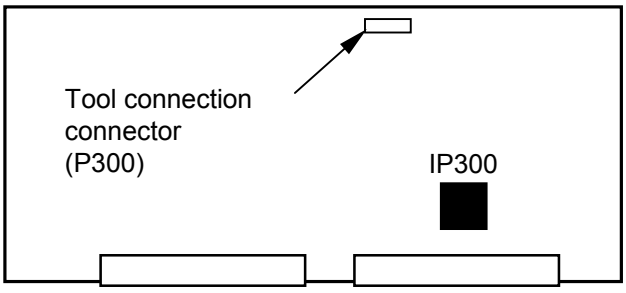
F4: DIGITAL PROCCESS circuit board (Foil side)



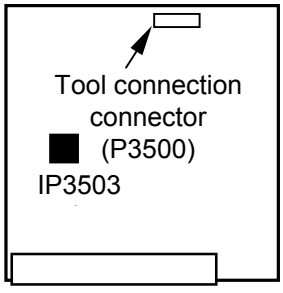
F5: V IN circuit board



F7: SERVO circuit board



F3A: SDI (AJ-YA455P) circuit board



9-3-2. CPLD Version up Method 1 (ALTERA)

A. Preparation

ITEM	REMARK
C PLD WRITER	VFK1590 VFK1590P2 (VFK1590 standard)
D-sub 25pin-25pin Cable	Straight (Male - Female), Length : Within 1meter
Version Upgrade Software	MAX+plus II Software (Please Download from www.altera.com/support/devices/programing/sup-asap2.html)
Version Upgrade Data	TDF File or POF (Include in “vsi xxxx” file)
Personal Computer	WINDOWS 95® or 98®

B. Connection

1. Connect the D-sub Cable between CN201(for ALTERA) connector of the CPLD WRITER (VFK1590) and Personal Computer (Printer port).
2. Connect the CPLD WRITER Cable (VFK1590P2) between connector on objective PCB and P2 connector of CPLD WRITER. (Refer to 9-3-1.Chart of PLD Writer and Figure 9-3-2.)
3. Turn on AJ-D455E and Personal Computer (Windows mode).

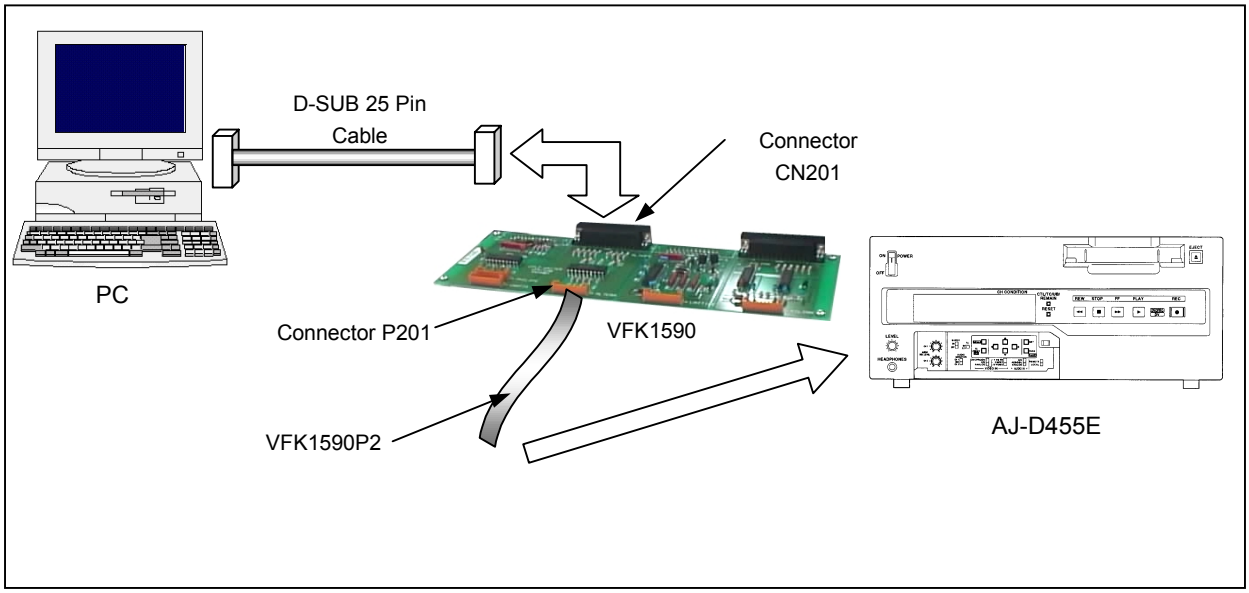
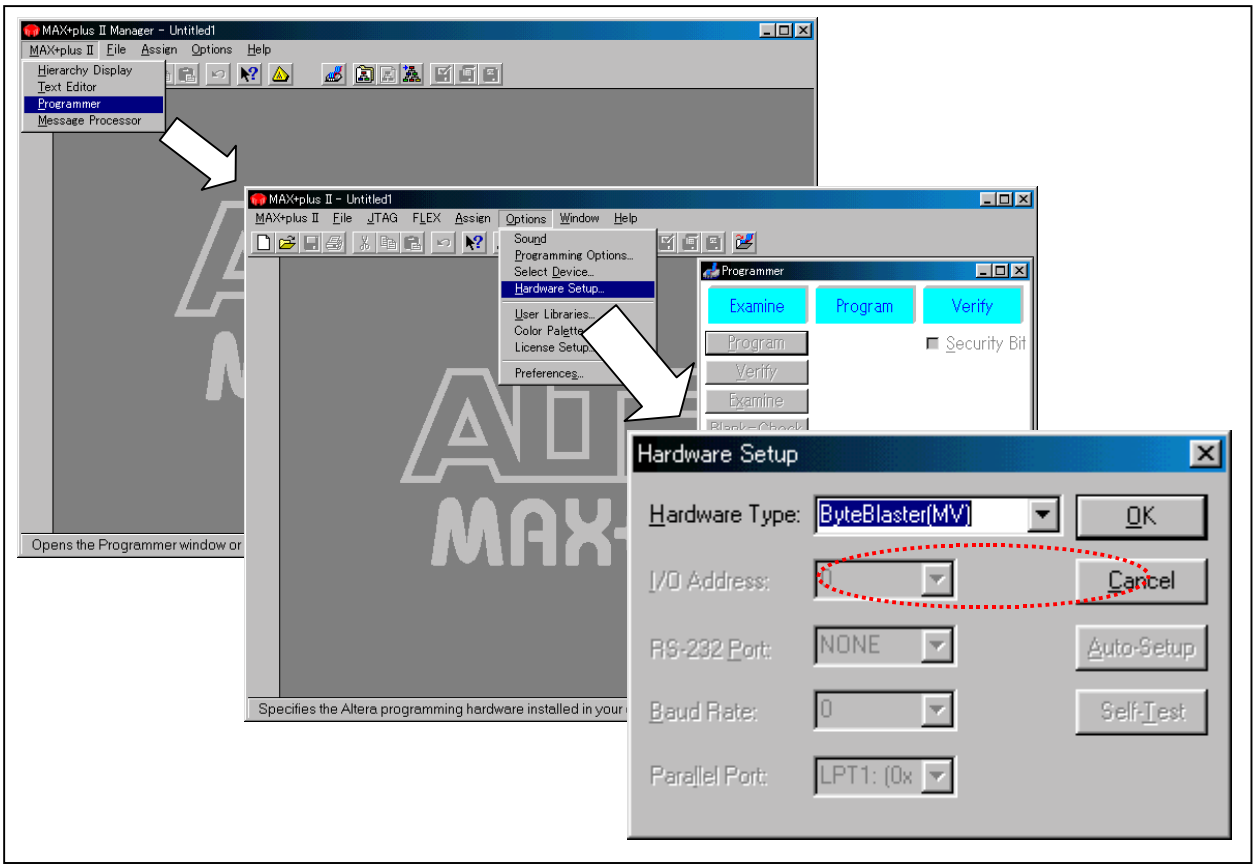


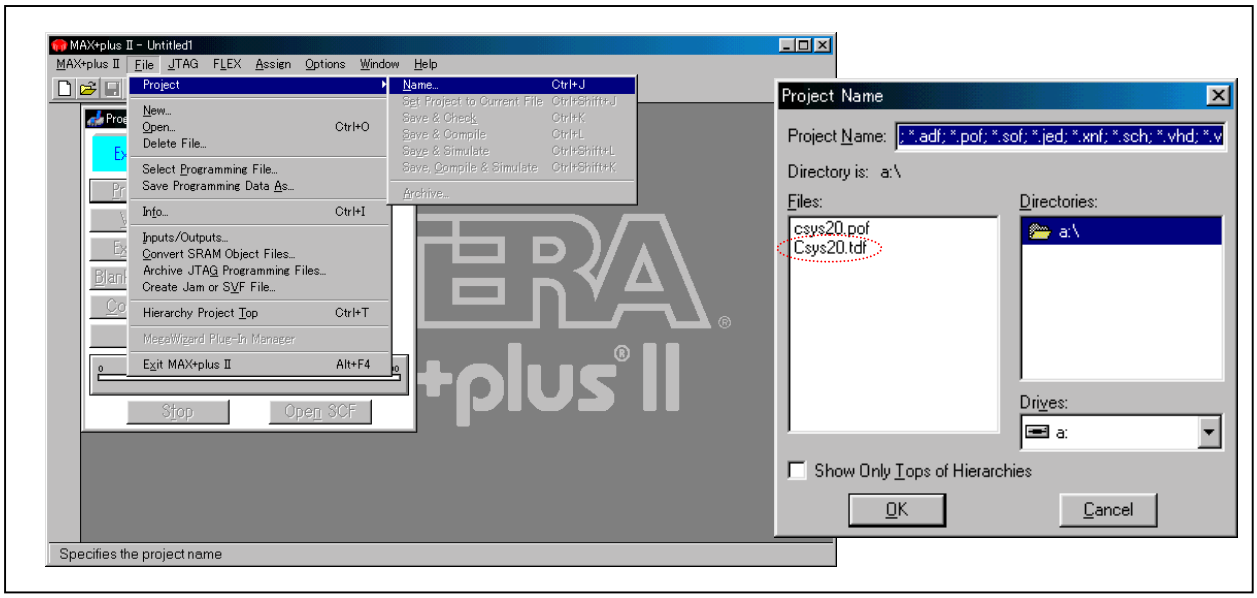
Figure 9-3-2 Connection for CPLD version up

C. Boot up the Ver. up Software and Ver. up Procedure

1. Boot up the **"MAX+plus II 9.6 programmer only"** Software.
2. On main window, select tab **"MAX+plus II"** and then **"Programmer"**.
3. On main window (Programmer window is displayed), select tab **"Option"** and then **"Hardware Setup"**.
4. On **Hardware Setup** dialog, set the **"Hardware Type"** to **"Byte Blaster (MV) "**.



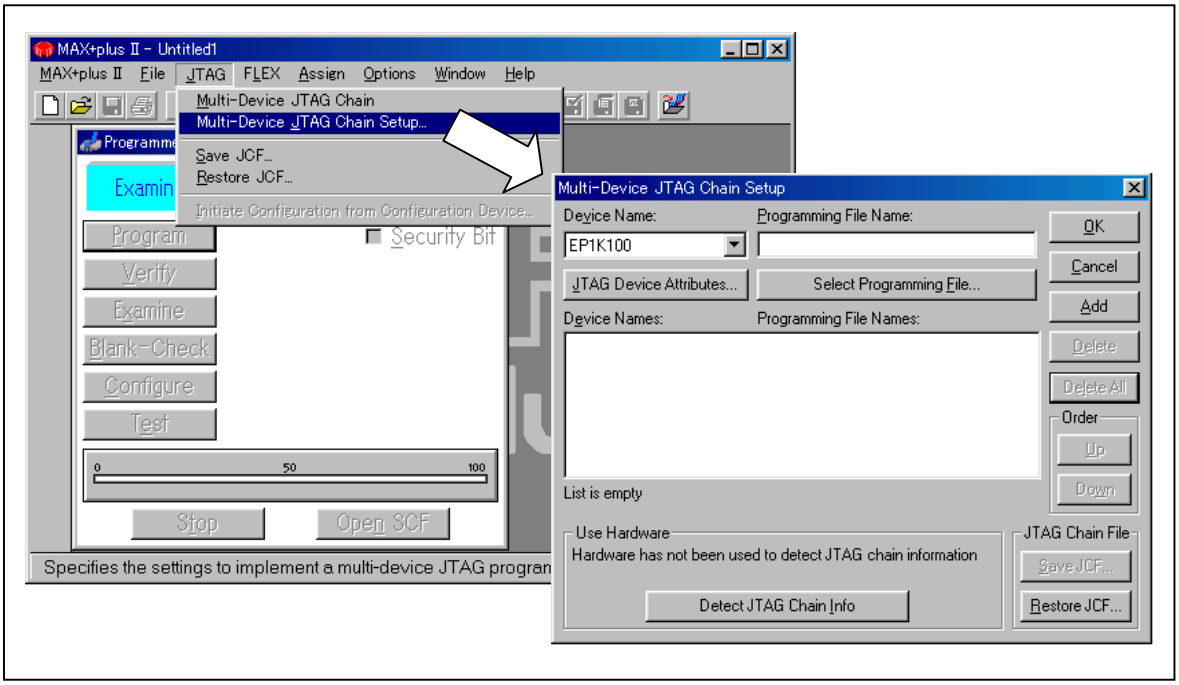
5. On main window, select tab **"File"**, **"Project"** and then **"Name"**.
6. On dialog of **Project Name**, select the **"tdf format file"** or **"pof format file"** and then perss **"OK"** button.



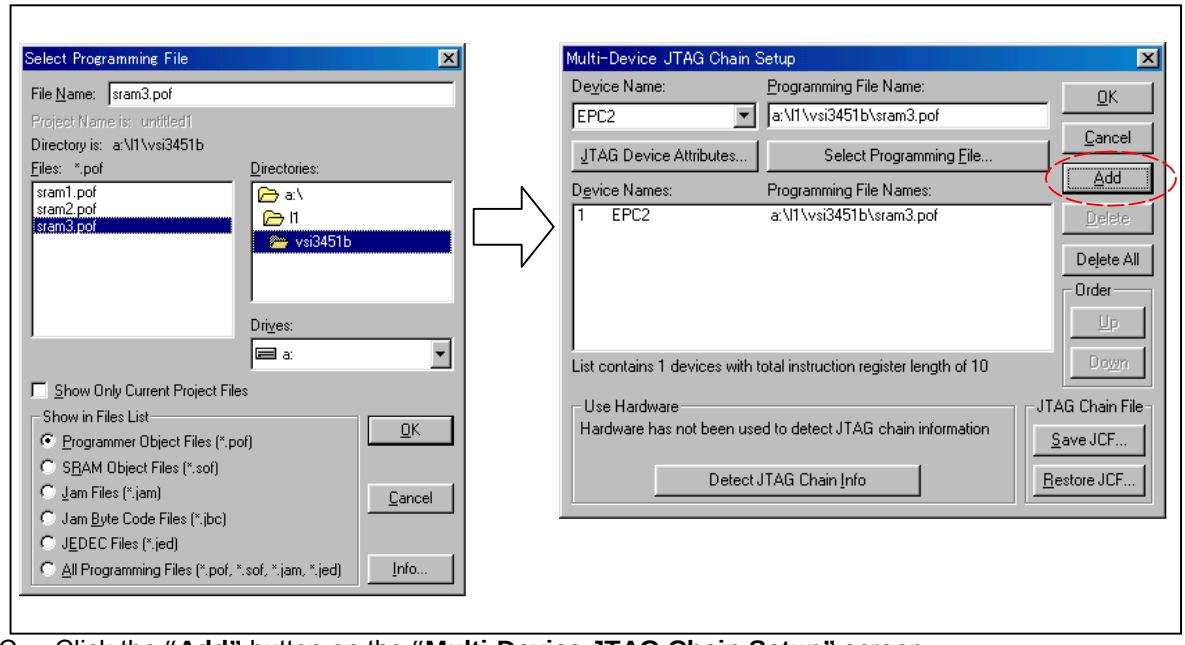
<Reference : Creation of chain file>

Use a **"chain file (in jcf format)"** for write-operation when a PCB includes several PLDs.
If no chain file has been created, create a chain file by the following procedures. (Example of L1 PCB)

A. Select **"Multi-Device JTAG Chain Setup"** on the main screen to display the **"Multi-Device JTAG Chain Setup"** screen.

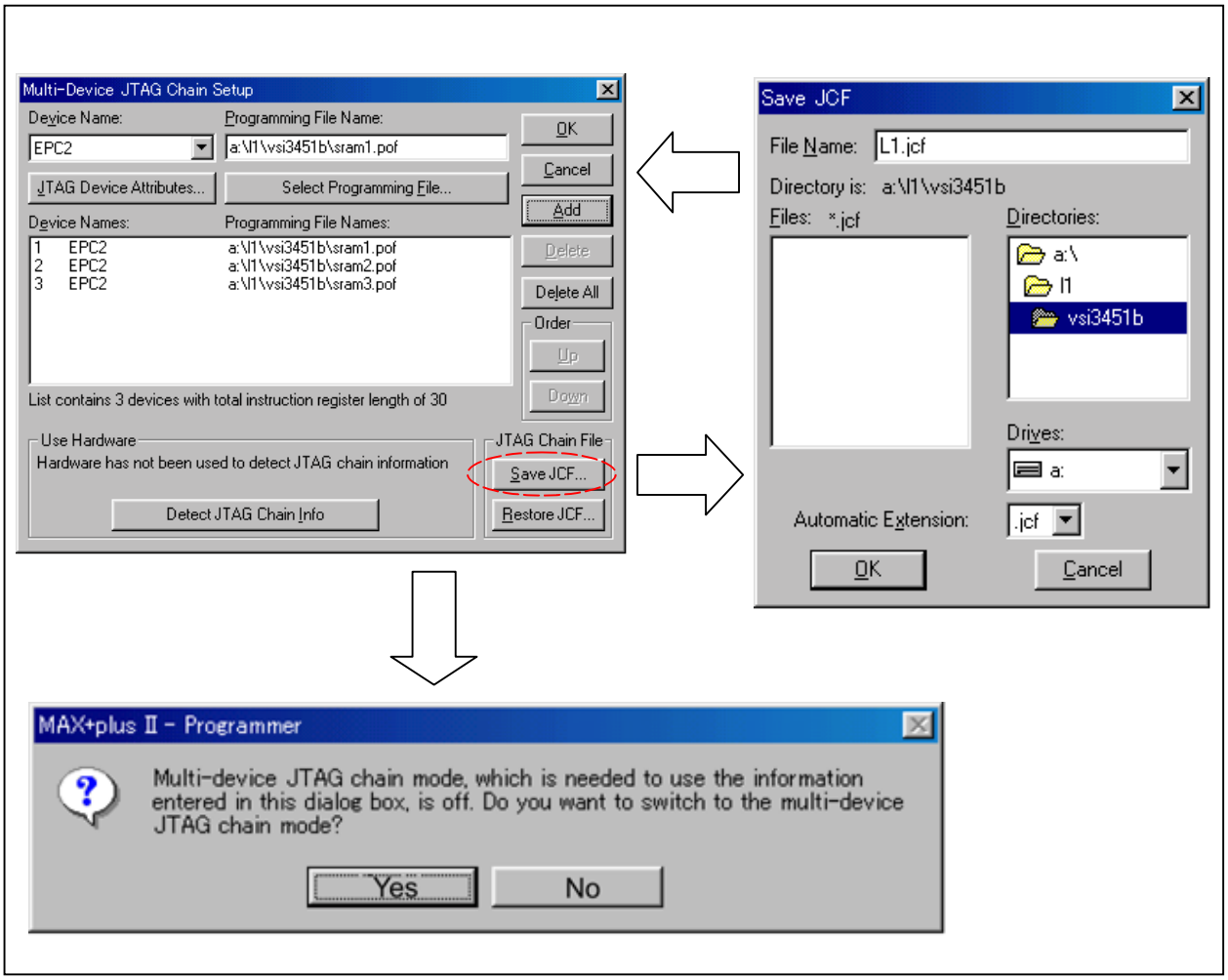


B. Click the **"Select Programming File"** button to display the **"Select Programming File"** screen. Next, select the drive which has software, and select the **"pof"** file. If three pof files can be seen as shown below, select a file in order of larger number, and click the **"OK"** button. Then, the **"Multi-Device JTAG Chain Setup"** screen is displayed.

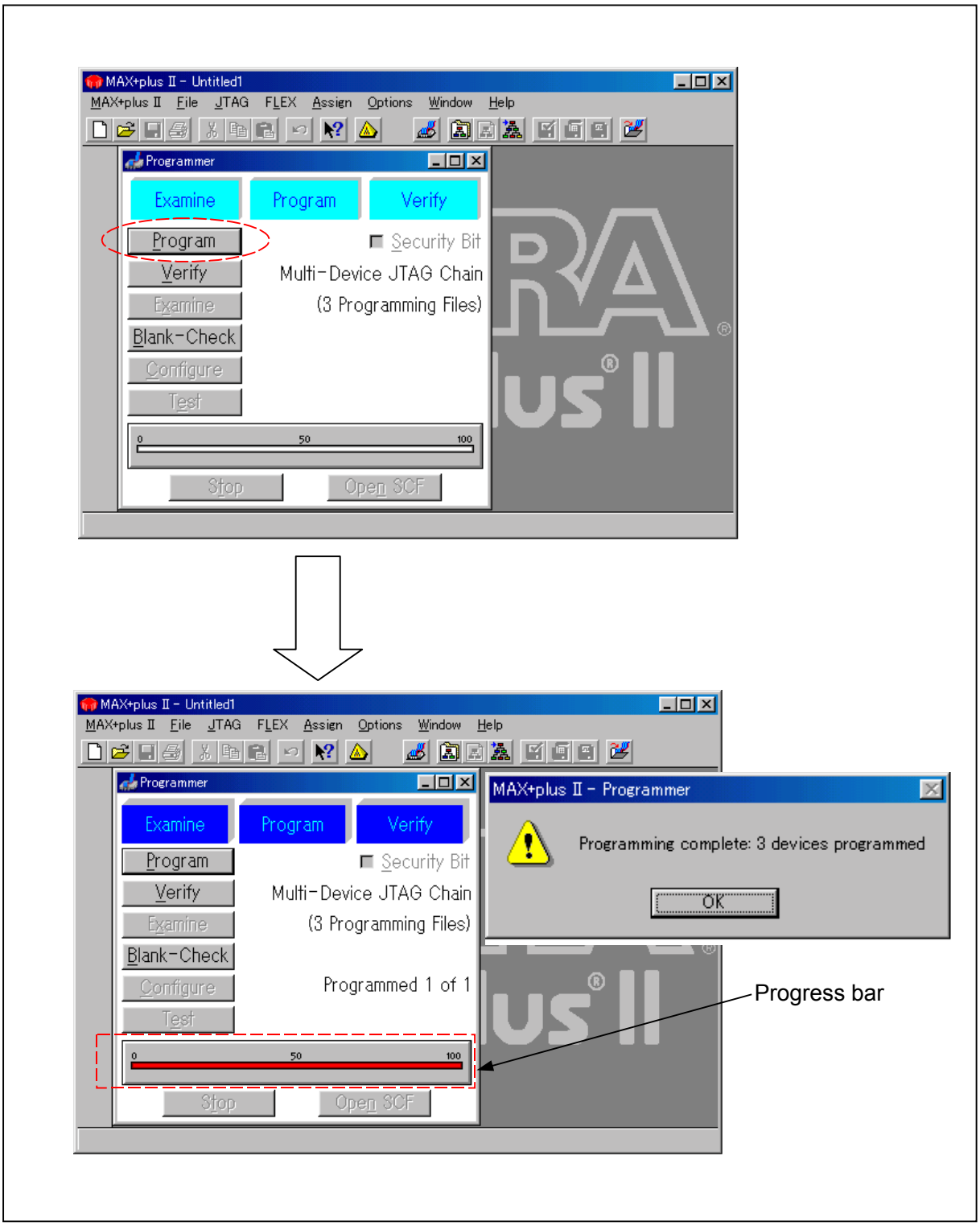


C. Click the **"Add"** button on the **"Multi-Device JTAG Chain Setup"** screen.

D. Repeat the steps 2 and 3 to capture the **"pof"** file.
E. Click the **"Save JCF"** button. Then, the **"Save JCF"** screen is displayed.
F. Enter a file name, and click the **"OK"** button.
G. Click the "OK" button on the **"Multi Device JTAG Chain Setup"** screen. Then, the following message is displayed : Multi-device JTAG chain mode, which is needed to use the information entered in this dialog box, is off. Do you want to switch to the multi-device JTAG chain mode ?
When this message is displayed, click **"YES"**.



7. Click the **“Program”** button on Programmer dialog.
8. When Progress Bar reaches at point of **100**, the message “Programming Complete” appears, then PLD version upgrade is completed. Click **“OK”** button on the **Programming complete** message Dialog.



* MAX+PLUS are registered trademarks of Altera Corporation.

* Windows95 and Windows98 are registered trademarks of Microsoft Corporation.

9-3-3. PLD Version up Method 2 (XILINX)

A. Preparation

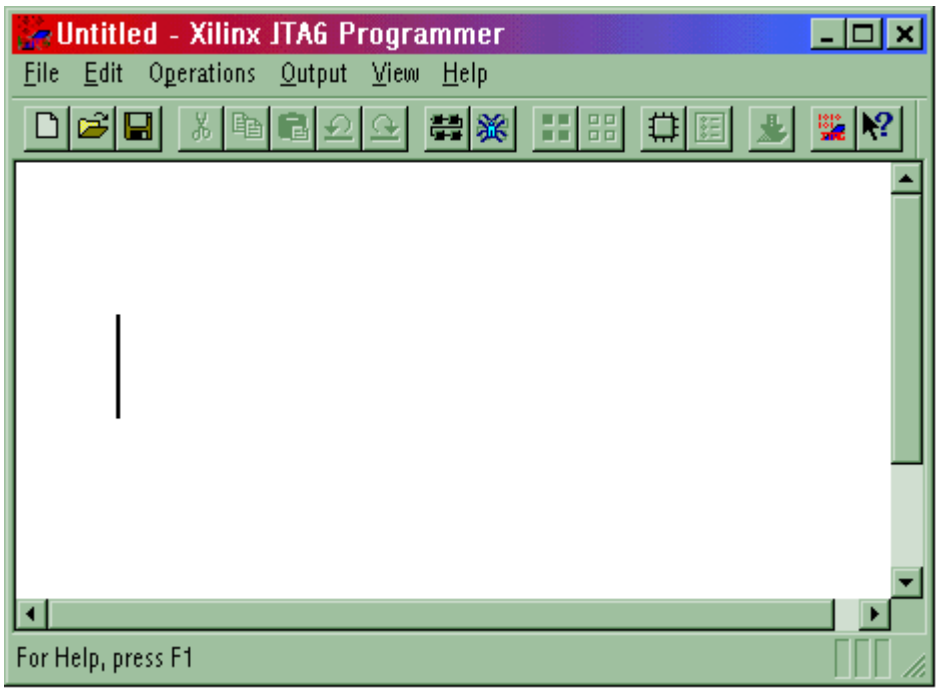
ITEM	REMARK
C PLD WRITER	VFK1590 VFK1590P4 (VFK1590 standard)
25pin-25pin Cable	Straight (Male - Female), Length : Within 1meter
Version Upgrade Software	JTAG Programmer Software Please download from the following URL http://www.xilinx.com/support/download.htm 1. Open this page and then select "WebPACK ISE". 2. Before downloading, Registration is required to get ID and Password. 3. Select FPGA and XPLA programmer from "Getting Start" menu.
Version Upgrade Data	cdf File (Include in VSI**** file)
Personal Computer	WINDOWS 95® or 98®

B. Connection

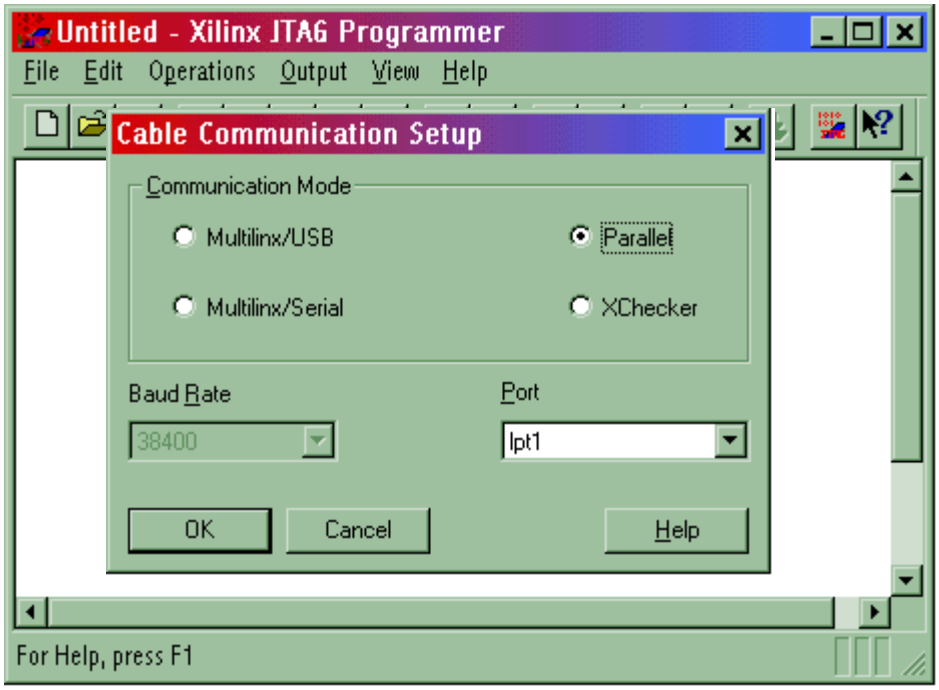
1. Connect the D-sub Cable between CN401(for XILINX) connector of the CPLD WRITER(VFK1590) and Personal Computer (Printer port).
2. Connect the CPLD WRITER Cable (VFK1590P4) between connector on objective PCB and P4 connector of CPLD WRITER. (Refer to 9-3-1.Chart of PLD Writer and Figure 9-3-2.)
3. Turn on AJ-D455E and Personal Computer (Windows mode).

C. Boot up the Ver. Up Software and Ver. up Procedure

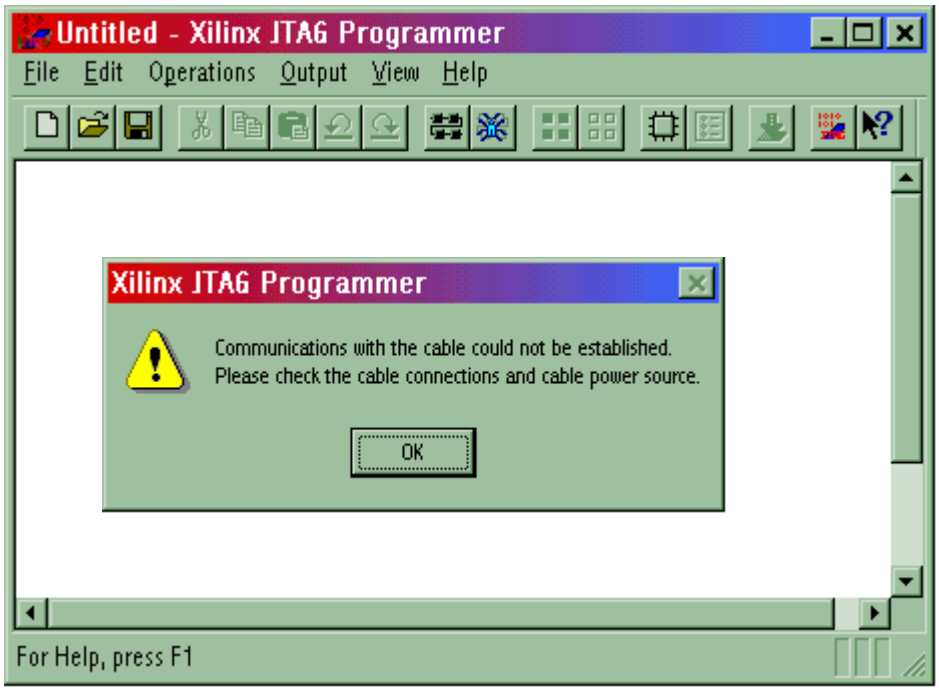
1. After download the program, **"Xilinx CPLD Webpack"** folder is created on windows. Click the start button of windows program **"Xilinx CPLD Webpack"**, then Device Program is boot up and following screen appears.



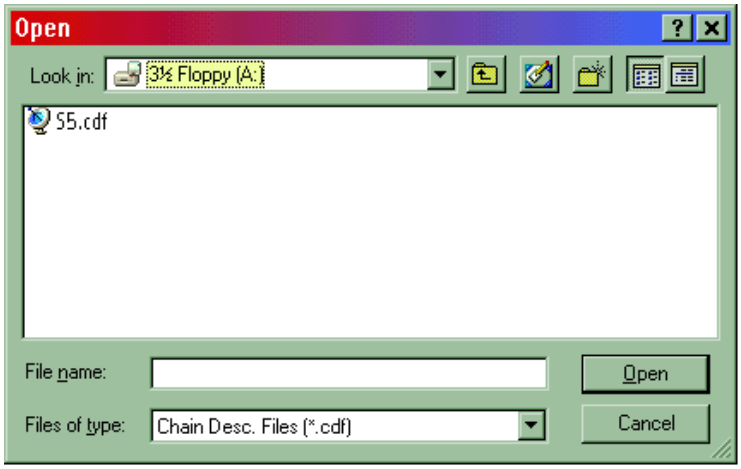
2. Click **“OUTPUT”** on the menu bar and select **“Parallel”** for **“Cable Communication Setup”** (default port is **“lpt1”**).



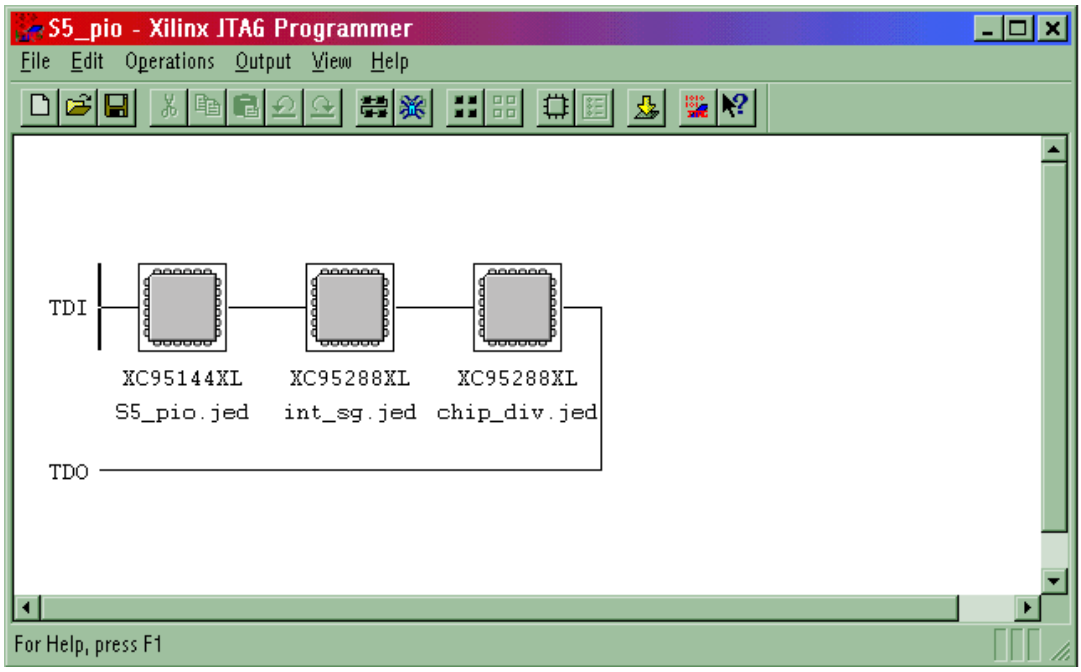
3. If connection is correct, following message appears.



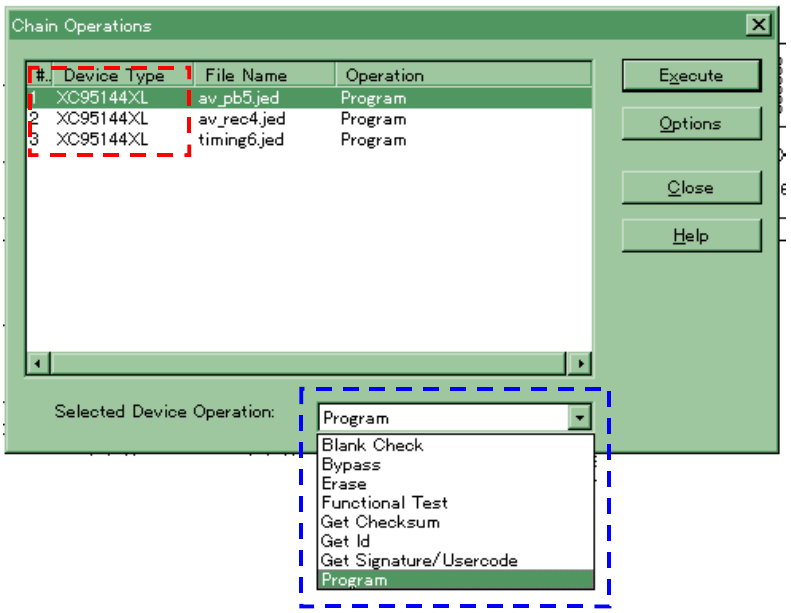
4. Click **“OK”** button.
5. Insert the floppy disk for version up data into A drive.
6. Open the target file. This file called Disk file, because one file can write several CPLDs like a chain.



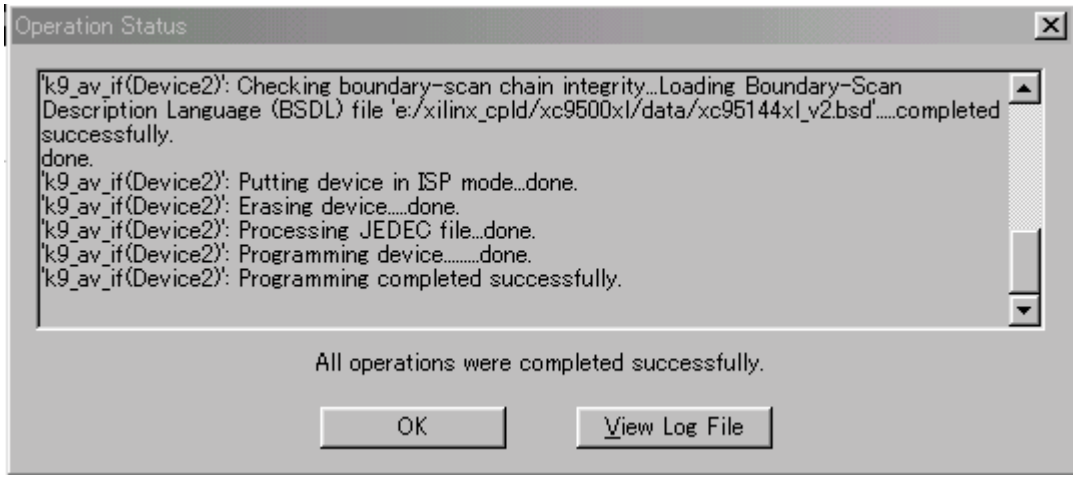
7. Click **"Open"** button, then following screen appears.



8. Then click **"Operations"** on menu bar and select **"Chain Operation"**. Then following screen appears.
9. Select the device from the **"Device Type"** column on the Chain Operation Window.
   Click the **"Selected Device Operation"** and select **"Program"**.
   Perform this procedure to all devices.



10. Click **“Execute”** button.
11. When the following screen with the message of **“All operation were completed successfully.”** appears, data writing is completed.

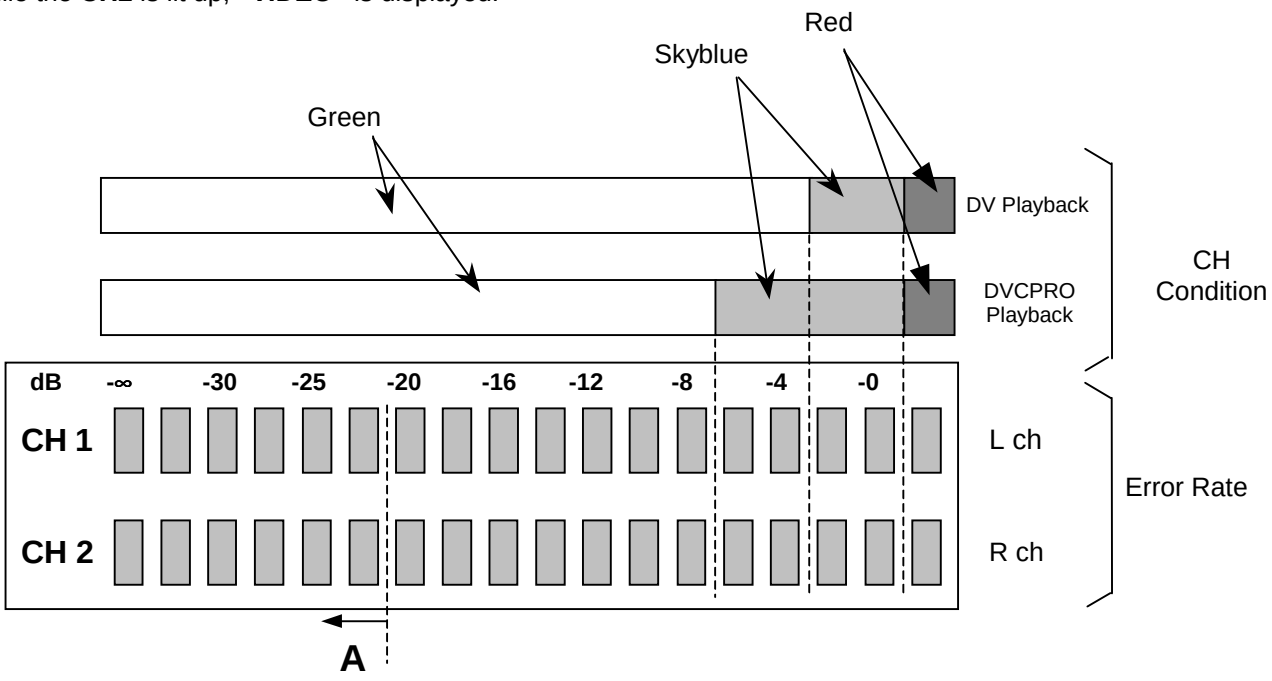


10. Error Rate Display and Confirmation Method

The error rate is displayed on the AUDIO LEVEL METER in Service mode. (When enters in Service menu mode, the AUDIO LEVEL METER changes into the error display mode automatically.)

The error rate of the head selected for the setting of **"B00: RF ADJUST"** in the service menu.
While the **DVCPRO** is played back, the selection is possible when **"C45 PB HEAD"** is selected.
While the **DV** is played back, the selection is possible when **"D45 PB HEAD"** is selected.

Whenever the **"DIAG"** button is pressed, switching between **"AUDIO" and "VIDEO"** is possible.
While the **CH1** is lit up, **"AUDIO"** is displayed.
While the **CH2** is lit up, **"VIDEO"** is displayed.



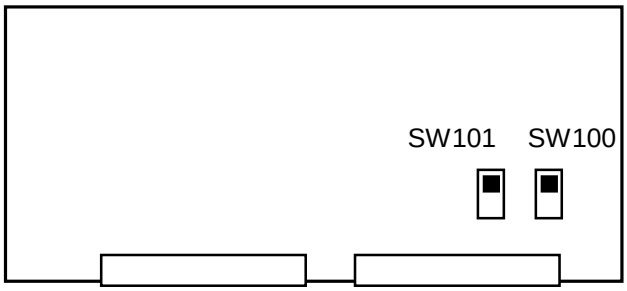
11. Internal Switch Setting Method

The switches setting on each circuit board are shown below.

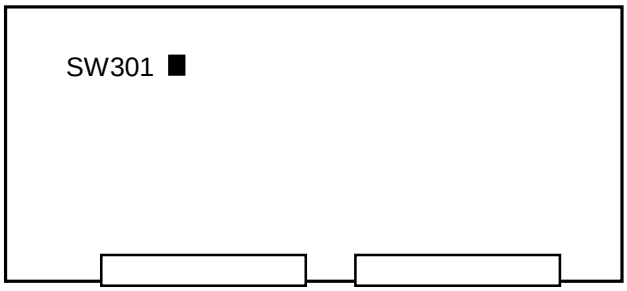
The switches **"Factory use only"** must be set to the **"factory setting"**.

BOARD	Ref. No.	SW	FACTORY SETTING	FEATURE
F1: AUDIO	SW4100	–	HIGH	Audio input impedance setting (600Ω/ HIGH)
	SW4101	–	HIGH	Audio input impedance setting (600Ω/ HIGH)
F6: SYSCON	SW301	1	OFF	Factory use only
		2	OFF	Factory use only

F1: AUDIO circuit board



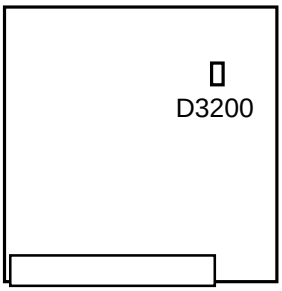
F6: SYSCON circuit board



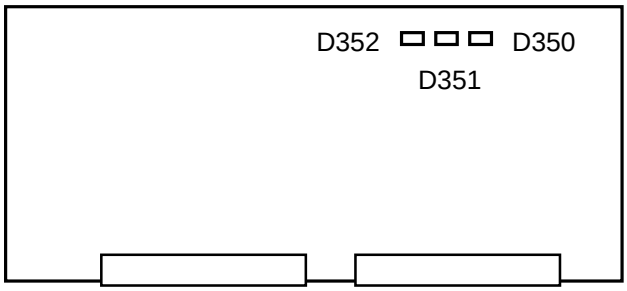
12. Internal LED Indication

BOARD	Ref. No.	FEATURE
F3A: SDI (AJ-YA455P)	D3200	For SDI input detection (light with SDI input/not light with no input)
F7: SERVO	D350	Capstan servo lock: Light with lock/not light with unlock
	D351	Cylinder servo lock: Light with lock/not light with unlock
	D352	For servo microcomputer operation confirmation (flashing with a operating)

F3A: SDI (AJ-YA455P) circuit board



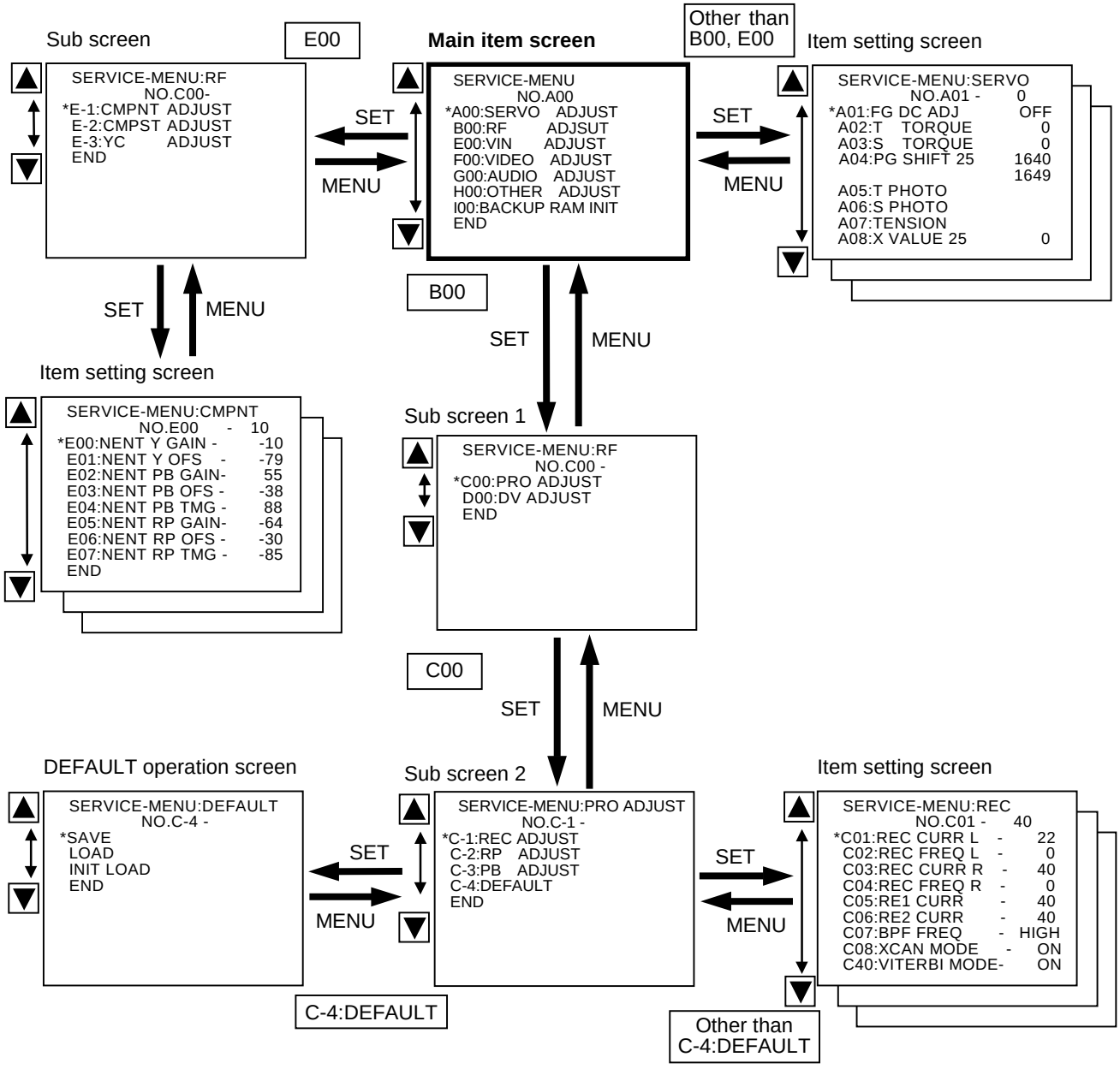
F7: SERVO circuit board



13. Service Menu

13-1. Service Menu Operation Method

1. Confirm that the **"REMOTE/LOCAL"** switch on the front panel is set to the **"LOCAL"**.
2. Press the **"MENU"** button on the front panel to display the **"SETUP-MENU"**.
3. When the **"SETUP-MENU"** is displayed, press the **"MENU"** button while pressing the **"EJECT"** button and the **"STOP"** button. Then, the **"SERVICE-MENU"** is displayed.
4. Move the cursor **"*"** with the **"▲" and "▼"** buttons to select any main item among items from A00 to I00.
5. If any of main items **(A00, F00, G00, H00, I00)** other than the RF adjustment **(B00)** and the V IN adjustment **(E00)** is selected, the item setting screen of the selected main item is displayed by pressing the **"SET"** button on the front panel.
6. For the RF adjustment **(B00)** and the V IN adjustment **(E00)**, select the item on the **Sub Screen**, and then, press the **"SET"** button. Then, the item setting screen of the selected item is displayed.
7. For both of the RF adjustment and the V IN adjustment, the previous screen can be displayed with the **"MENU"** button.
8. The settings can be altered on the item setting screen by moving the cursor **"*"** with the **"▲" and "▼"** buttons. Settings can be altered by pressing the **"◀" and "▶"** buttons. (Setting and operating procedures may be different depending on the selected item. Refer to the details of the service menu.)



13-2. DEFAULT Operation

13-2-1. RF adjustment (B00)

In the RF adjustment, it is possible to save the set values to an area different from the back up area for the present set valng. The saved setting can be loaded as the present setting. This operation is effective only after the loading is completed.

*** Operating procedures**

1. Move the cursor **"*"** onto the **"C-4 : DEFAULT"**.
2. Press the **"SET"** button on the front panel.
3. Press the **"** ▲ **"** and **"** ▼ **"** buttons to move the cursor **"*"** onto the objective item.

   SAVE : The present setting can be saved as the backup value.

   LOAD : The saved backup value can be loaded as the current setting.
   (If the SAVE operation has not been carried out, the initial value will be loaded.)

4. Press the **"SET"** button on the front panel. Then, the selected operation is carried out, and then, the item setting screen is displayed again. When the **"MENU"** button is pressed, the item setting screen is displayed again without any operation carried out.

13-3. Service Menu Contents

A00: SERVO ADJUST

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
A01	FG DC ADJ	0 1 2 3 4 5	OFF OK CAP NG SRL NG TRL NG	Automatic adjustment of the DC offset of the capstan, S/T-Reel FG. This shall be done is in EJECT condition. Operation: 1. The following operation will start when the ← or → button is pressed. 1) S/T-brake OFF 2) Capstan, S/T-Reel is rotation 3) DC offset automatic adjustment will start 2. When the message “OK” appears, adjustment is completed. 3. Release the ← or → button If the following messages are displayed, the adjustment is faulty. CAP-NG Capstan FG adjustment NG SRL-NG S-Reel FG adjustment NG TRL-NG T-Reel FG adjustment NG	Yes	
A02	RL GAIN ADJ	T REEL 0 | 100 | 255 S REEL 0 | 100 | 255	T REEL 0 | 100 | 255 S REEL 0 | 100 | 255	Automatic adjustment of the reel torque of the S/T-Reel. Operation: This shall be done is in EJECT condition. 1. Switch to PLAY mode. 2. Keep pressing the ← or → button. The set value indication will go out and automatic adjustment will start. 3. When the set value is displayed, adjustment is completed. Release the ← or → button.	Yes	
A03	T TORQUE	-128 | 0 | 127	-128 | 0 | 127	Compensation of the T-reel driver offset value This shall be done in EJECT condition. Operation: 1. The following operations will start when the ← or → button is pressed. 1) T-brake OFF 2) Cylinder rotation 3) Loading to the loading completion position 2. Set the value with the search dial. 3. Release the ← or → button when setting is completed. 1) Unloading to the unloading completion position 2) Cylinder stop 3) T-brake ON	Yes	
A04	S TORQUE	-128 | 0 | 127	-128 | 0 | 127	Compensation of the S-reel driver offset value This shall be done in EJECT condition. Operation: 1. The following operations will start when the ← or → button is pressed. 1) S-brake OFF 2) Cylinder rotation 3) Loading to the loading completion position 2. Set the value with the search dial. 3. Release the ← or → button when setting is completed. 1) Unloading to the unloading completion position 2) Cylinder stop 3) S-brake ON	Yes	
A05	PG SHIFT 25	RISE 0 | 1649 | 4095 FALL 0 | 1645 | 4095	RISE 0 | 1649 | 4095 FALL 0 | 1645 | 4095	Alignment tape is used for PG mono-multi automatic adjustment. Operation: 1. Switch to PLAY mode. 2. Keep pressing the ← or → button. The set value indication will go out and automatic adjustment will start. 3. When the set value is displayed, adjustment is completed. Release the ← or → button.	Yes	

Item		Set value		Setting contents and outline function explanation	BACK-UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
A06	T PHOTO		Voltage value 0.0V | 3.3V	Indication of the detection voltage of the photo sensor for beginning and end detection on the T-side This is used for adjustment of the sensitivity of the photosensor. Operation 1. Switch to EJECT mode. 2. Select the item. 3. The voltage value will be displayed. 4. Insert the cassette for sensitivity adjustment. Stop will be performed at the cassette DOWN position. 5. Adjust the sensitivity with the VR on the MECHA_IF. 6. The cassette will be ejected when the cursor is moved to an item other than A05: T PHOTO or A06: S PHOTO.	No	
A07	S PHOTO		Voltage value 0.0V | 3.3V	Indication of the detection voltage of the photo sensor for beginning and end detection on the S-side This is used for adjustment of the sensitivity of the photosensor. Operation: 1. Switch to EJECT mode. 2. Select the item. 3. The voltage value will be displayed. 4. Insert a cassette for sensitivity adjustment. The cassette will stop at the DOWN position. 5. Adjust the sensitivity with the VR on the MECHA_IF. 6. The cassette will be ejected when the cursor is moved to an item other than A05: T PHOTO or A06: S PHOTO.	No	
A08	TENSION	0 1	Non-display ON	Loading operation for tension offset adjustment Operation: 1. Switch to EJECT mode. 2. Switch the set value to ON. Loading will be performed to the loading completion position. 3. Unloading will be performed when the set value is switched to OFF or when the cursor is moved to another item.	No	
A09	X VALUE 25	-128 | 0 | 127	-128 | 0 | 127	Electrical fine adjustment of the X-value Operation: 1. Switch to PLAY mode. 2. Keep pressing the ← and → button. The set value display will go out and automatic adjustment will start. 3. Adjustment is completed when the set value is displayed. Release the ← and → button.	Yes	
A10	PB GAIN 25	-128 | 0	-128 | 0	Adjustment of the ATF prefilter gain of the PB head	Yes	
A11	PB LIN 25	0 1	Non-display ON	Adjustment of the LISTA linearity of the PB head	No	
A12	RP GAIN 25	-128 | 0	-128 | 0	Adjustment of the ATF prefilter gain of the PBR head	Yes	
A13	RP LIN 25	0 1	Non-display ON	Adjustment of the LISTA linearity of the RP head	No	
A14	RP GAIN DV	-128 | 0	-128 | 0	Adjustment of the ATF prefilter gain of the RP head (For DV, this can work only when a DV cassette is inserted.)	Yes	
A15	RP LIN DV	0 1	Non-display ON	Adjustment of the LISTA linearity of the RP head (For DV, this can work only when a DV cassette is inserted.)	No	
A16	TRK VAL 25	-128 | 0 | 127	-128 | 0 | 127	Set the CTL tracking offset value.	No	
A17	REC DATA SEL	0 1	NORMAL CW	Select the Rec data 0: NORMAL DATA 1: CW signal	No	

B00: RF ADJUST

RF ADJUST has a subscreen composition, and there is a hierarchical structure for each format.

RF ADJUST subscreen

Item		Item contents
No.	SUPER DISP.	
C00	PRO ADJUST	Adjustment for DVCPRO (25 Mbps)
D00	DV ADJUST	Adjustment for DV • Insert a DV cassette for adjustment.

C: RRO ADJUST subscreen

Item		Item contents
No.	SUPER DISP.	
C-1	REC ADJUST	Adjustment of the recording system for DVCPRO (25 Mbps)
C-2	RP ADJUST	Adjustment of the playback system (RP head) for DVCPRO (25 Mbps)
C-3	PB ADJUST	Adjustment of the playback system (PB head) for DVCPRO (25 Mbps)
C-4	DEFAULT	LOAD/SAVE of the factory default adjustment values/initial values LOAD operation • Perform operation in regard to the adjustment values for DVCPRO (25 Mbps). • Operation is effective only after completion of loading. Operation: 1. Move the cursor to C-4: DEFAULT. 2. Press the "▲" and "▼" button and move the cursor to the desired operation item. SAVE ... Save the present set values as the factory default values. LOAD ... Load the saved factory default values as the present set values. (When SAVE operation has not been performed, the initial values will be loaded.) INIT LOAD ... Load the initial values as the present set values. 3. When the SET button is pressed, the selected operation will be performed and it will return to the item setting screen. When the MENU button is pressed, no operation will be performed and it will return the item setting screen.

D: DV ADJUST subscreen

Item		Item contents
No.	SUPER DISP.	
D-1	REC ADJUST	Adjustment of the recording system for DVCPRO
D-2	RP ADJUST	Adjustment of the playback system (RP head) for DVCPRO
D-4	DEFAULT	LOAD/SAVE of the factory default adjustment values/initial values LOAD operation • Perform operation in regard to the adjustment values for DVCPRO. • Operation is effective only after completion of loading. Operation: 1. Move the cursor to C-4: DEFAULT. 2. Press the "▲" and "▼" button and move the cursor to the desired operation item. SAVE ... Save the present set values as the factory default values. LOAD ... Load the saved factory default values as the present set values. (When SAVE operation has not been performed, the initial values will be loaded.) INIT LOAD ... Load the initial values as the present set values. 3. When the SET button is pressed, the selected operation will be performed and it will return to the item setting screen. When the MENU button is pressed, no operation will be performed and it will return to the item setting screen.

C-1: REC ADJUST

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
C01 D01	REC CURR L	-128 | 40 | 127	-128 | 40 | 127	Adjustment of the RP L head recording current	Yes	
C02 D02	REC FREQ L	-128 | 0 | 127	-128 | 0 | 127	Adjustment of the RP L head recording f characteristic	Yes	
C03 D03	REC CURR R	-128 | 40 | 127	-128 | 40 | 127	Adjustment of the RP R head recording current	Yes	
C04 D04	REC FREQ R	-128 | 0 | 127	-128 | 0 | 127	Adjustment of the RP R head recording f characteristic	Yes	
C05 D05	RE1 CURR	-128 | 40 | 127	-128 | 40 | 127	Adjustment of the RE1 head erase current	Yes	
C06 D06	RE2 CURR	-128 | 40 | 127	-128 | 40 | 127	Adjustment of the RE2 head erase current	Yes	
C07 D07	BPF FREQ	0 1	HIGH LOW	BPF band setting for recording adjustment • The setting is held until exit from PRO ADJUST, DV ADJUST.	No	
C08 D08	XCAN MODE	0 1	OFF ON	Crosstalk canceler ON/OFF setting • The setting is held until exit from RRO ADJUST, DV ADJUST.	No	

C-2: RP ADJUST / C-3: PB ADJUST

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
C01 D01	RF PHS L	-128 | 20 | 127	-128 | 20 | 127	Adjustment of the Lch head playback phase	Yes	
C02 D02	RF PHS R	-128 | 20 | 127	-128 | 20 | 127	Adjustment of the Rch head playback phase	Yes	
C03 D03	RF MAG L	-128 | -30 | 127	-128 | -30 | 127	Adjustment of the Lch head playback amplitude	Yes	
C04 D04	RF MAG R	-128 | -30 | 127	-128 | -30 | 127	Adjustment of the Rch head playback amplitude	Yes	

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
C05 D05	ENV L	0 | 255	0 | 255	Playback signal envelope level read-out value averaged for each track of each head ENV L: Lch head ENV R: Rch head Averaging is performed at 8 points in the track, and the newest track value for which averaging has been completed at the time when read-out is started will be read out. • Read-out is possible only at the time of PLAY and REC. • The value is held until exit from PRO ADJUST, DV ADJUST. Operation: • At the time of C32, D32: IC READ = SINGLE Read-out and display are performed each time the SET button is pressed. • At the time of C32, D32: IC READ = CONT Read-out and display are performed once every second.	No	
C06 D06	ENV R	0 | 255	0 | 255		No	
C07 D07	AEQ SPD	0 1 2 3	0 1 2 3	The control response speed for the adaptive equalization filter is set in four levels. The sensitivity is highest with 0 and lowest with 3.	Yes	
C08 D08	HLD SEN	0 1 2 3	0 1 2 3	The detection sensitivity for detection of changes in the relative speed is set in four levels. The sensitivity is highest with 0 and lowest with 3.	Yes	
C09 D09	FLT SEN	0 1 2 3	0 1 2 3	The detection sensitivity for the fault detection function is set in four levels. A fault status is detected when a status where a normal signal can not be detected consecutively for 5 tracks over the following track values. 0: 1/2 1: 3/4 2: 7/8 3: 15/16	Yes	
C10 D10	PLLREV	0 1	SLOW FAST	The compensation speed in PLL frequency compensation mode is set in two levels	Yes	
C11 D11	PLLPHS	0 | 7 | 31	0 | 7 | 31	In the PLL response speed setting, mainly the phase pull-in speed is controlled. The response speed becomes faster with larger values.	Yes	
C12 D12	REV LEV	0 1 2 3	0 1 2 3	The strength of the frequency pull-in operation of the PLL phase comparison characteristic expansion function is controlled in four levels. The action is weakest with 0 and strongest with 3. When the data acquisition ratio at the time of special playback is bad, it can be improved by controlling this parameter.	Yes	
C13 D13	PLL FRQ	C13 0 | 7 | 31	C13 0 | 7 | 31	The setting of the PLL response speed controls mainly the frequency pull-in speed. The response becomes faster with larger values.	Yes	
		D13 0 | 1 | 31	D13 0 | 1 | 31			
C14 D14	MONI LIM	0 | 46 | 127	0 | 46 | 127	Setting of the frequency offset tolerance value for PLL frequency monitor control The actual tolerance range in regard to the reference frequency is (set value)/10.24%.	Yes	
C15 D15	TH EYE	0 | 110 | 255	0 | 110 | 255	Setting of the threshold value for judging the signal quality after equalization The judgment result for the signal quality is used for adaptive equalization, PLL, fault detection function, and other control.	Yes	

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
C16 D16	TH ULK	0 | 92 | 255	0 | 92 | 255	Setting of the threshold value for judging the signal quality after equalization The judgment result for the signal quality is used for adaptive equalization, PLL, fault detection function, and other control.	Yes	
C17 D17	TH ENV	0 | 16 | 255	0 | 16 | 255	Setting of the threshold value for the envelope detection signal The envelope detection signal is used for adaptive equalization filter, PLL, and AGC hold control.	Yes	
C18 D18	AGC SPEED	0 1 2 3	0 1 2 3	Setting of the AGC response speed	Yes	
C19 D19	VCO	0 | 512 | 1023	0 | 512 | 1023	Setting of the initial value of the output voltage adjusting the VCO center frequency Adjustment is performed automatically in standby mode, but the time required for automatic adjustment can be reduced by setting this value in advance to a suitable value. The automatically adjusted value is read out and set. • Read-out is possible only at the time of EJECT, STANDBY-OFF. Operation: • At the time of C32, D32: IC READ = SINGLE Read-out and display are performed each time the SET button is pressed. • At the time of C32, D32: IC READ = CONT Read-out and display are performed once every second.	Yes	
C20 D20	T L 3A	-31 | 0 | 31	-31 | 0 | 31	The initial values for six of the seven tap coefficients of the adaptive equalization filter, excluding the fixed center tap, are set for the Lch head. The tap coefficient values after adaptive equalization filter convergence at the time of standard tape playback are read out and set. • Read-out is possible only at the time of PLAY, REC. Operation: • At the time of C32, D32: IC READ = SINGLE Read-out and display are performed each time the SET button is pressed. • At the time of C32, D32: IC READ = CONT Read-out and display are performed once every second.	Yes	
C21 D21	T L 2A	-31 | 0 | 31	-31 | 0 | 31		Yes	
C22 D22	T L 1A	-80 | -32 | -4	-80 | -32 | -4		Yes	
C23 D23	T L 1B	-80 | -32 | -4	-80 | -32 | -4		Yes	
C24 D24	T L 2B	-31 | 0 | 31	-31 | 0 | 31		Yes	
C25 D25	T L 3B	-31 | 0 | 31	-31 | 0 | 31		Yes	

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
C26 D26	T R 3A	-31 | 0 | 31	-31 | 0 | 31	The initial values for six of the seven tap coefficients of the adaptive equalization filter, excluding the fixed center tap, are set for the Rch head. The tap coefficient values after adaptive equalization filter convergence at the time of standard tape playback are read out and set. • Read-out is possible only at the time of PLAY, REC. Operation: • At the time of C32, D32: IC READ = SINGLE Read-out and display are performed each time the SET button is pressed. • At the time of C32, D32: IC READ = CONT Read-out and display are performed once every second.	Yes	
C27 D27	T R 2A	-31 | 0 | 31	-31 | 0 | 31		Yes	
C28 D28	T R 1A	-80 | -32 | -4	-80 | -32 | -4		Yes	
C29 D29	T R 1B	-80 | -32 | -4	-80 | -32 | -4		Yes	
C30 D30	T R 2B	-31 | 0 | 31	-31 | 0 | 31		Yes	
C31 D31	T R 3B	-31 | 0 | 31	-31 | 0 | 31		Yes	
C32 D32	IC READ	0 1 2	OFF SINGLE CONT	The following data are read out from the EQ100 IC. However, there are limitations according to the mode. Data which can be read-out only at the time of PLAY, REC ENV L ENV R T L 3A T L 2A T L 1A T L 1B T L 2B T L 3B T R 3A T R 2A T R 1A T R 1B T R 2B T R 3B Data which can be read-out only at the time of EJECT, STANDBY-OFF VCO 0: No read-out 1: Read-out each time the SET button is pressed. 2: Read-out is performed once every second. • The setting is held until PRO ADJUST, DV ADJUST is left.	No	

C-1: REC ADJUST / C-2: RP ADJUST / C-3: PB ADJUST COMMON ITEM

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
C40 D40	VITERBI MODE	0 1	OFF ON	Setting whether Viterbi decoding is to be used for detection of playback data or not • The setting is held until exit from PRO ADJUST, DV ADJUST.	No	
C41 D41	AEQ MODE	0 1	OFF ON	Setting of the adaptive function of the adaptive equalization filter • The setting is held until exit from PRO ADJUST, DV ADJUST.	No	
C42 D42	ECC MODE	0 1 2	ALL ON OT OFF AL OFF	Setting of error correction control 0: Error correction for INNER and OUTER. 1: Error correction only for INNER, but not for OUTER. 2: No error correction for INNER and OUTER. • The setting is held until exit from PRO ADJUST, DV ADJUST.	No	
C43 D43	CONCEAL MOD	0 1	ON OFF	Setting of error revision control 0: Error revision is performed. 1: Error revision is not performed. • The setting is held until exit from PRO ADJUST, DV ADJUST.	No	
C44 D44	ERROR MODE	0 1	FAST SLOW	Setting of the error sampling time 0: FAST mode 1: SLOW mode • The setting is held until exit from PRO ADJUST, DV ADJUST.	No	
C45 D45	PB HEAD	0 1	PB RP	• Setting of Playback head 0: PB head 1: RP head The setting is held until exit from PRO ADJUST, DV ADJUST.	No	
C46 D46	REC DATA	0 1	NORMAL CW	• Select the Rec Data 0: NOMAL Data 1: CW Signal The setting is held until exit from PRO ADJUST,DV ADJUST.	No	
C47 D47	TRACKING MOD	0 1	ATF CTL	Tracking mode setting 0: ATF tracking 1: CTL tracking • The setting is held until exit from PRO ADJUST, DV ADJUST.	No	
C48 D48	TRACKING VAL	-128 | 0 | 127	-128 | 0 | 127	Offset value setting for CTL tracking • Effective only at the time of TRACKING MOD = CTL. • The setting is held until exit from PRO ADJUST, DV ADJUST.	No	

E00: VIN ADJUST

VIN ADJUST has a subscreen composition, and there is a hierarchical structure for each format.

VIN ADJUST subscreen

Item		Item contents
No.	SUPER DISP.	
E-1	CMPNT ADJUST	Adjustment to component input
E-2	CMPST ADJUST	Adjustment of composite input
E-3	YC ADJUST	Adjustment of S-VIDEO (Y/C) input

E-1: CMPNT ADJUST

Item		Set value		Setting contents and outline function explanation	BACK-UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
E00	NENT Y GAIN	-128 | -10 | 127	-128 | -10 | 127	Adjustment of component Y level	Yes	
E01	NENT Y OFS	-128 | -79 | 127	-128 | -79 | 127	Adjustment of component Y offset level	Yes	
E02	NENT PB GAIN	-128 | 55 | 127	-128 | 55 | 127	Adjustment of component Pb level	Yes	
E03	NENT PB OFS	-128 | -38 | 127	-128 | -38 | 127	Adjustment of component Pb offset level	Yes	
E04	NENT PB TMG	-50 | 0 | 49	-50 | 0 | 49	Adjustment of component Pb timing	Yes	
E05	NENT PR GAIN	-128 | 64 | 127	-128 | 64 | 127	Adjustment of component Pr level	Yes	
E06	NENT PR OFS	-128 | -30 | 127	-128 | -30 | 127	Adjustment of component Pr offset level	Yes	
E07	NENT PR TMG	-50 | 0 | 49	-50 | 0 | 49	Adjustment of component Pr timing	Yes	

E-2: CMPST ADJUST

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
E00	SITE Y GAIN	-128 | 5 | 127	-128 | 5 | 127	Adjustment of composite Y level	Yes	
E01	SITE Y OFS	-128 | -81 | 127	-128 | -81 | 127	Adjustment of composite Y offset level	Yes	
E02	SITE PB GAIN	-128 | 18 | 127	-128 | 18 | 127	Adjustment of composite Pb level	Yes	
E03	SITE PB OFS	-128 | -38 | 127	-128 | -38 | 127	Adjustment of composite Pb offset level	Yes	
E04	SITE PB TMG	-50 | 0 | 49	-50 | 0 | 49	Adjustment of composite Pb timing	Yes	
E05	SITE PR GAIN	-128 | 75 | 127	-128 | 75 | 127	Adjustment of composite Pr level	Yes	
E06	SITE PR OFS	-128 | -31 | 127	-128 | -31 | 127	Adjustment of composite Pr offset level	Yes	
E07	SITE PR TMG	-50 | 0 | 49	-50 | 0 | 49	Adjustment of composite Pr timing	Yes	
E08	SITE CAXIS	-128 | -27 | 127	-128 | -27 | 127	Adjustment of composite vector phase	Yes	

E-3: Y/C ADJUST

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
E00	YC Y GAIN	-128 | -25 | 127	-128 | -25 | 127	Adjustment of the Y level for S-VIDEO (YC)	Yes	
E01	YC Y OFS	-128 | -79 | 127	-128 | -79 | 127	Adjustment of the Y offset for S-VIDEO (YC)	Yes	
E02	YC PB GAIN	-128 | -2 | 127	-128 | -2 | 127	Adjustment of the Pb level for S-VIDEO (YC)	Yes	
E03	YC PB OFS	-128 | -37 | 127	-128 | -37 | 127	Adjustment of the Pb offset level for S-VIDEO (YC)	Yes	
E04	YC PB TMG	-50 | 0 | 49	-50 | 0 | 49	Adjustment of the Pb timing for S-VIDEO (YC)	Yes	
E05	YC PR GAIN	-128 | 45 | 127	-128 | 45 | 127	Adjustment of the Pr level for S-VIDEO (YC)	Yes	
E06	YC PR OFS	-128 | -30 | 127	-128 | -30 | 127	Adjustment of the Pr offset level for S-VIDEO (YC)	Yes	
E07	YC PR TMG	-50 | 0 | 49	-50 | 0 | 49	Adjustment of the Pr timing for S-VIDEO (YC)	Yes	
E08	YC CAXIS	-128 | -27 | 127	-128 | -27 | 127	Adjustment of the vector phase for S-VIDEO (YC)	Yes	

F00: VIDEO ADJUST

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
F03	VIDEO MUTE	0 1	NORMAL MUTE	Select whether the VIDEO output is to be made gray or not 0:Normal output 1:Forced gray output	No	
F06	EE TEST MODE	0 1	NORMAL DCI RT	EE check for the entire signal processing system 0:Bus EE (EE1) 1:Full EE (EE2)	No	
F11	V SETUP	0 1	OFF ON	Switching of effective/not effective for SETUP MENU 613: SETUP 0:SETUP-MENU 613: SETUP is not displayed and THRU is sent forcibly to AV. However, the backup value does not change. (Shipping setting for T) 1:SETUP-MENU 613: SETUP is displayed and the set value is sent to AV. (Shipping setting for P, E, EG)	Yes	
F17	GAP COUNT	0 | 40 | 64	0 | 40 | 64	Setting of the GAP count for DVPRO I/F	Yes	

G00: AUDIO ADJUST

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
G01	REF_LEVEL1	0 1 2	FS-20 FS-18 FS-12	Selection of the audio I/O reference level 0: Full scale -20 dB 1: Full scale -18 dB 2: Full scale -12 dB • Change of the set value is possible only when G02: REF_LEVEL2 = 0 dB has been set.	Yes	
G02	REF_LEVEL2	0 1	0dB -3dB	Selection of the SETUP MENU set value for switching of the audio I/O reference level. 700:CH1 IN LV 703:CH1 OUT LV 701:CH2 IN LV 704:CH2 OUT LV 0: 4 dB/0 dB/-20dB/-60dB switching is possible. 1: Fixed to -3 dB • Set value change is possible only when G01:REF LEVEL 1 = FS-18 has been set.	Yes	
G03	REF LV INI	0 1	0dB 4dB	Setting of the factory default value of the SETUP MENU for audio I/O reference level switching. 700:CH1 IN LV 703:CH1 OUT LV 701:CH2 IN LV 704:CH2 OUT LV 0: 0 dB (Shipping setting for oversea) 1: 4 dB (Shipping setting for JAPAN)	Yes	
G08	AUD PB MODEI	0 1	MODE1 MODE2	Setting of audio playback mode 0: NOMAL Mode 1: Setting is carried out when directly editing the jointed tape on which recording was performed with a cam coder or playing back the edited tape.	Yes	
G09	LINE OUT CUE	0 1	OFF ON	Setting whether “CH1/CH2 OUTPUT terminal” can be selected is forcibly as the CUE output signal.	Yes	

H00: OTHER ADJUST

Item		Set value		Setting contents and outline function explanation	BACK -UP	Remarks
No.	SUPER DISP.	No.	SUPER DISP.			
H01	STILL LIMIT	0 1	2 min 6 min	Set the maximum value of the "SETUP-MENU 400 : STILL TIMER". Decide whether the still timer should be reset when the STANDBY-ON command is received during the STOP mode. 0:2 min/The still timer should not be reset 1:6 min/The still timer should be reset	Yes	
H02	LTC OUT SEL	0 1	N-STOP STOP	Selection of TC output according to the mode or not 0: Output always, independent of the mode 1: ON/OFF switching of the TC output according to the VTR mode. However, the TC output always is ON at the time of SETUP MENU 317: AUD MEM MODE = AMU_X, AMU_VO.	Yes	
H03	SYSTEM TYPE	0 1	TYPE 1 TYPE 2	Selection whether 2.3x speed is added to SHTL mode or not 0: No 2.3 speed 1: 2.3 speed exists	Yes	

H02: TC output by the mode at the time of LTC OUT SEL = STOP setting

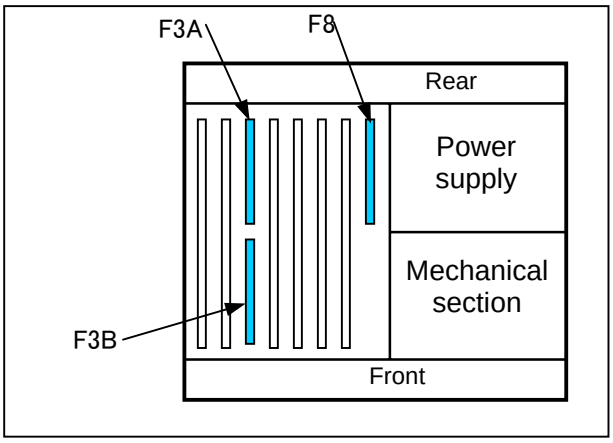
TC INT/EXT	Mode	VV / EE	TC output
INT	EJECT STOP STANDBY OFF JOG/VAR/SHTL STILL	—	OFF
	Others	—	ON
EXT	EJECT STOP STANDBY OFF JOG/VAR/SHTL STILL	VV (including BLACK, GLAY of EJECT)	OFF
		EE	ON
	Others	—	ON

13-4. SET-UP Menu Initialization

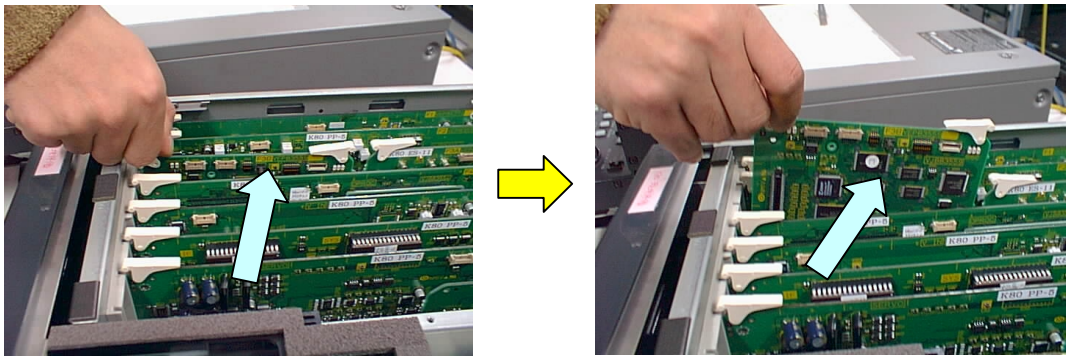
1. In the EJECT mode, press the “MENU” button to open the SETUP menu.
2. Keep and press the “EJECT” button, and press the “RESET” button more than 2 seconds.
3. Close the menu automaticaly, then the SET-UP menu data (SYSTEM, USER1-5) is initialized.

14. Notes on Removal of PCB F3A, F3B, F8

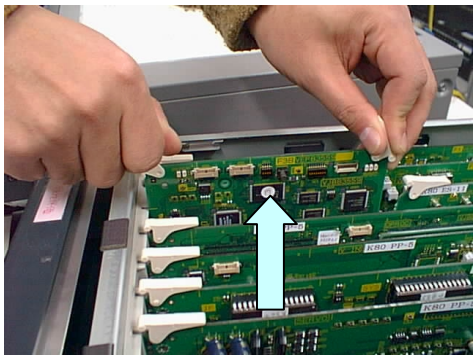
In AJ-D455E, the H-PCBs (half-size PCBs) are inserted in the F-PCB (full-size PCB) slots. Pulling of the three PCBs, F3A (SDI option), F3B (DIF option), and F8 (RF), with only one hand may cause bend on the pin of the PCB connector. When removing them, be sure to pull them straight upward with your both hands.



Bad removal (Pulling up PCB slantingly with only one hand)



Good removal (Pulling up PCB straight with both hands)



15. Auto OFF mode

In case AUTO OFF Error is occurred, error number is flashed on counter display of front panel and error message appear on the monitor screen(superimpose on VIDEO 3 OUT).
The number of below table indicates as priority display of error number and message, when some error occurred at the same time. Error message indicates under error number on below table.

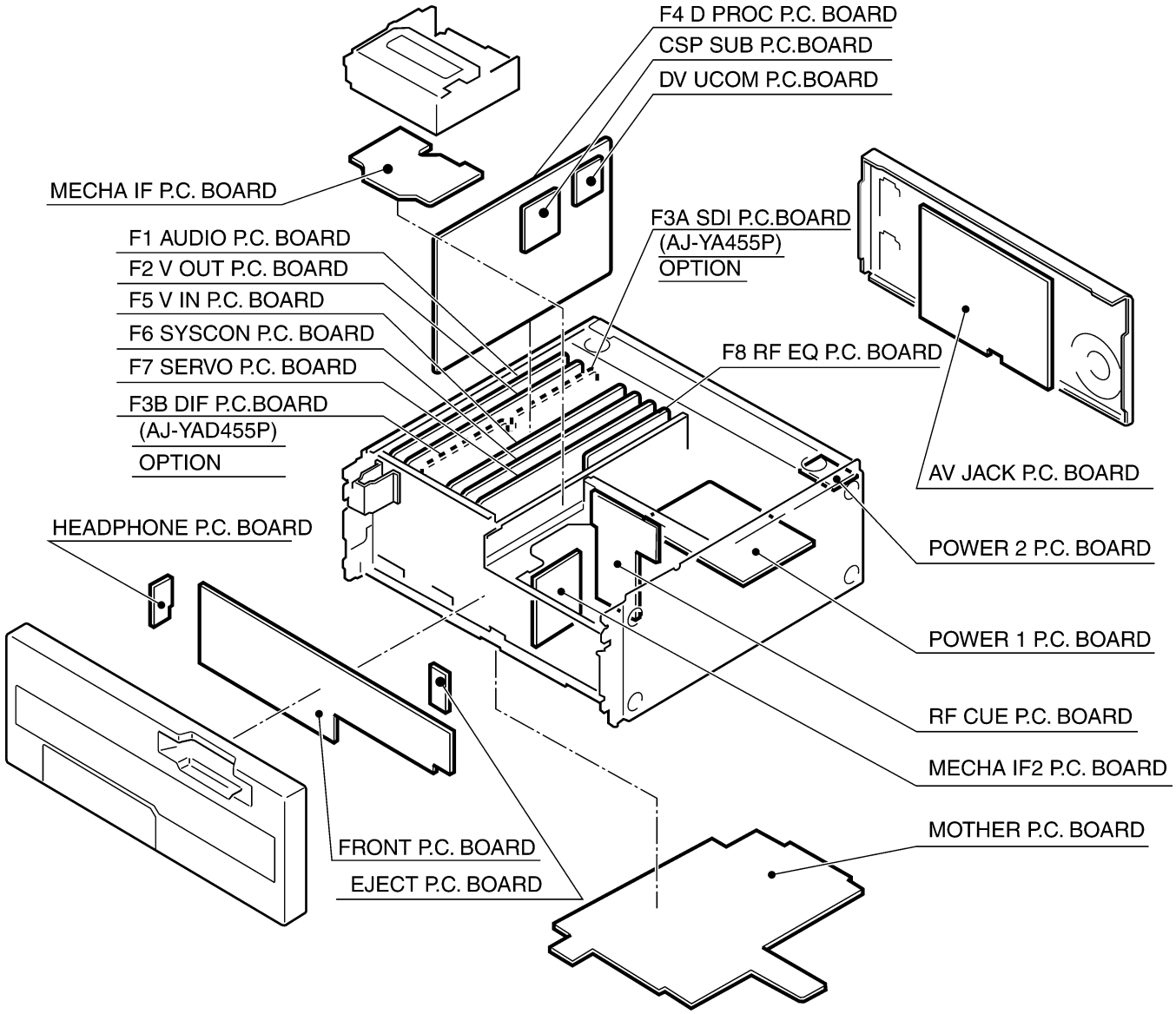
ERR No.	Display (20 characters)	Contents	VTR Operation	Detection Place	Reset Condition
E-29	FRONT LOAD MOTOR	The cassette does not move up even when 6 seconds have elapsed since the VTR was transferred to the eject mode. **<Note>** After inserting the cassette, the unit will go to EJECT mode if cassette is not loaded after six seconds.	STOP	SYSCON	POWER OFF → ON
E-31	LOADING MOTOR	The unloading operation is not completed within 6 seconds. **<Note>** The unit will go to EJECT mode (unloading) if the loading operation is not completed within six seconds.	STOP	SYSCON	POWER OFF → ON
E-35	SERVO CONTORL ERR	There is no response from the servo microcomputer for 1 or more seconds. **<Note>** System control circuit sends COMM_TEST signal to Servo circuit and Servo circuit returns COMM_TEST_RET signal. If this signal is not returned within 1 seconds, “AUTO OFF” process is produced and Servo is reset for 50 ms.	STOP	SYSCON	POWER OFF → ON
E-36	SERVO ERROR	Only the servo microcomputer was reset in an instantaneous power failure.	STOP	SYSCON	POWER OFF → ON
E-37	SERVO COMM ERROR	The servo microcomputer does not follow the instructions of the system control microcomputer even when 10 seconds have elapsed.	STOP	SYSCON	POWER OFF → ON
E-38	SERVO FG ERROR	When power on the VTR and set EJECT mode, execute Reel & Capstan FG offset adjustment automatically. If it is finished abnormally, appear this error number.	STOP	SERVO	POWER OFF → ON
E-51	FRONT LOAD ERROR	The take-up reel has been rotating idly for a fixed period of time while the start/end processing operation during loading (half position) is being performed.	STOP	SERVO	POWER OFF → ON
E-52	W-UP REEL NOT ROTA	After the cassette has been inserted, the tape take-up reel has not wound up the tape while the total tape amount is not detected and while the tape is travelling.	STOP	SERVO	POWER OFF → ON
E-53	WINDUP ERROR	After the total tape amount has been detected, the amount of tape wound up on the take-up reel and the amount of tape supplied by the supply reel differ to an abnormal extent (more than 2cm) while the tape is travelling.	STOP	SERVO	POWER OFF → ON
E-55	UNLOAD ERROR	The tape has not been wound up during unloading.	STOP	SERVO	POWER OFF → ON
E-57	S-FF/REW TIME/OVER	The start/end processing operation is not completed even after 10 or more seconds have elapsed.	STOP	SERVO	POWER OFF → ON
E-59	DRUM ROTA TOO SLOW	The cylinder motor speed is abnormally low. In the cylinder on mode, cylinder PG interval is more than 1.5 ms for 5 seconds or cylinder PG is not detected for 1 seconds.	STOP	SERVO	POWER OFF → ON

No.	Display (20 characters)	Contents	VTR Operation	Detection Place	Reset Condition
E-60	DRUM ROTA TOO FAST	The cylinder motor speed is abnormally high. PG interval is less than 3ms for 2seconds.	STOP	SERVO	POWER OFF → ON
E-61	CAP ROTA TOO SLOW	The capstan motor speed is abnormally low. In the capstan on mode, capstan FG is not detected for 5 seconds.	STOP	SERVO	POWER OFF → ON
E-64	S REEL TOO FAST	The supply reel motor speed is abnormally high more than 2 seconds.	STOP	SERVO	POWER OFF → ON
E-67	T-REEL TOO FAST	The take-up reel motor speed is abnormally high more than 2 seconds.	STOP	SERVO	POWER OFF → ON
E-69	T-REEL TORQUE ERR	An abnormal torque applied to the take-up reel motor is detected. If the T Reel Torque error voltage is more than 0.5V continuously, goes to Auto Off mode within 105 seconds.	STOP	SERVO	POWER OFF → ON
E-70	S-REEL TORQUE ERR	An abnormal torque applied to the supply reel motor is detected or if an abnormal current flowing to the current-sensing resistor is detected. If the S Reel Torque error voltage is more than 0.5V continuously, goes to Auto off mode within 105 seconds or Over current flow to Reel Motor more than 0.55A for 2 seconds.	STOP	SERVO	POWER OFF → ON
E-71	CAP TENSION ERROR	An abnormal tension at the supply side is detected in the capstan mode. Tension sensor voltage (SERVO:TP201) is more than 4.7 V or less than 0.3 V for 2 seconds.	STOP	SERVO	POWER OFF → ON
E-72	REEL TENSION ERROR	An abnormal tension at the supply side is detected in the reel mode. Tension sensor voltage (SERVO:TP201) is more than 4.7 V or less than 0.3 V for 2 seconds.	STOP	SERVO	POWER OFF → ON
E-73	REEL DIR UNMATCH	The reel motor at the take-up side is running in the reverse direction. Rotation of Take-up reel in opposite direction has continued through complete turn except speed 0 (stop)	STOP	SERVO	POWER OFF → ON
E-20	DEW	When condensation is detected, the error no. display flashes, and the unit goes into EJECT mode. The drum rotates after the cassette tape is ejected to remove condensation. When the condensation has been removed, the error no. display disappears and the VTR may be used. **<Notes>** 1) The drum rotates as soon as condensation is detected when the unit is in EJECT mode. 2) When condensation is detected while a cassette tape is inserted, drum rotation stops, the cassette tape is ejected and the drum rotation begins again.	EJECT	SYSCON	-----

* Other Operation.

1) If the Reel Base unit does not move to prescribed position within 3 seconds, Reel Motor goes to stop and the cassette is ejected.

16. Circuit board layout drawing



17. AJ-YAD455P Service Information

17-1. Node Unique ID (UID) number Setting Procedure

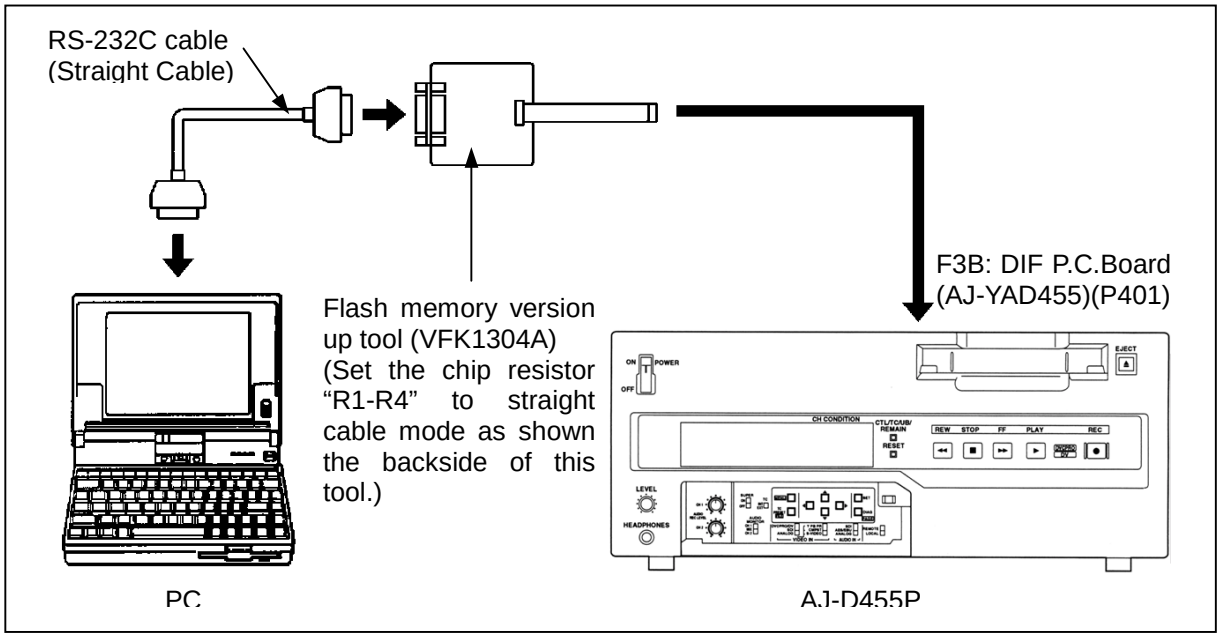
<Confirmation of UID number>

AJ-YAD455 has “Node Unique ID” for IEEE1394 I/F. This number is displayed in the DIF STATUS MENU.

1. Press the “DIAG” button, then open the Warning page.
2. Press the “ ▸ ” button twice to open the DIF STATUS page.
3. The UID number is displayed on the bottom side of the menu.

<Writing UID>

1. Connect the AJ-D455E, the “Flash memory version up tool (VFK1304A)”, and the personal computer as shown below. Pay attention not to confuse the connection direction (rear, front) for the flat cable of the tool (VFK1304A). And set the VFK1304A to “STRAIGHT CABLE” mode as shown the backside of this tool.



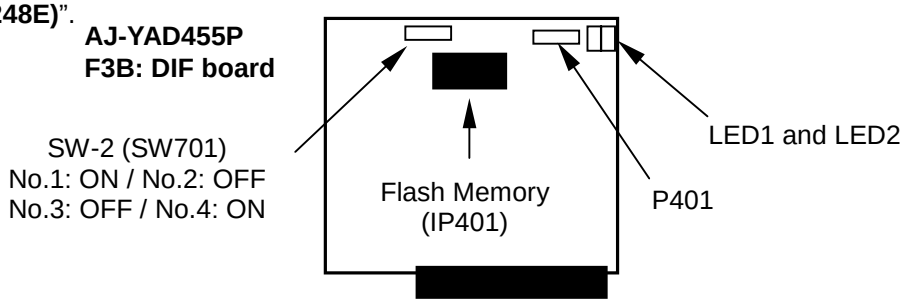
2. Set the DIP-SW1 (SW301) and SW2 (SW701) as follows.
   SW1 (SW301) = No.1:ON / NO.2-8:OFF
   SW2 (SW701) = No.1:ON / No.2:OFF / No.3:OFF / No.4:ON
3. Turn on the power of personal computer.
4. Start up the Hyper Terminal of Windows 95/98 on the personal computer.
   (Programs of Windows → Accessories → Hyper Terminal → Hypertrm)
   Name the Hyper Terminal "1394", and select an icon.
   Select the connection method. (Connecting using: Direct to COM*)
   Perform settings of the Port. (Bits per second: 9600, Data bits: 8, Parity: None, Stop bits: 1, Flow control: None)
   File → Properties → Settings → ASCII Setup → put a mark on the "Append line feeds to incoming line ends" of ASCII Receiving.
5. Turn on the power of AJ-D455E.
6. The initial screen of Debug Monitor appears on the Hyper Terminal screen.

```
*******************************************************************************
*                          -- Debug Monitor --                                *
*   Copyright(C) 1997-1998, Matsushita Electric Industrial Co., Ltd.  *
*                          All right reserved                                 *
*******************************************************************************
```

7. Press the Enter key, and confirm that "MON >>" appears.
8. Input the UID command "MON >>uid ********", which is the 8 digits of the second half of the UID. (The 8 digits of the first half is always 00804582.)
9. Confirm that "&OK" and "MON >>" appear.
10. Close the software "Hyper Terminal". Turn the power of AJ-D455E off.
11. Set the SW1and 2 to original position.

17-2. Version Upgrade for Flash Memory

The AJ-YAD455P (F3B: DIF board) has flash memory. For the software version up, connect the "**Flash memory version up tool (VFK1304A)**" to the tool connection connector and use the "**Flash memory version up software (VFK1248E)**".



17-2-1. Version Upgrade Preparations

1. Items required for flash memory writing

Flash memory version up software ····· **VFK1248E**
NOTE: Software with the old version (VFK1248A) can not be used.
Flash memory version up tool ····· **VFK1304A**
Personal computer compatible with Windows 95/98
RS-232C cable (9pin-9pin Straight -cable)

2. Installation of the flash memory version up software

Copy the following file to arbitrary directory on a personal computer compatible with Windows 95/98.
(After execution of the software, an ".INI" file will be created in the same directory as the program file, but this may be left or may be deleted as desired.)

Program file ····· **VSI2312E.EXE**

3. Setting of the flash memory version up tool

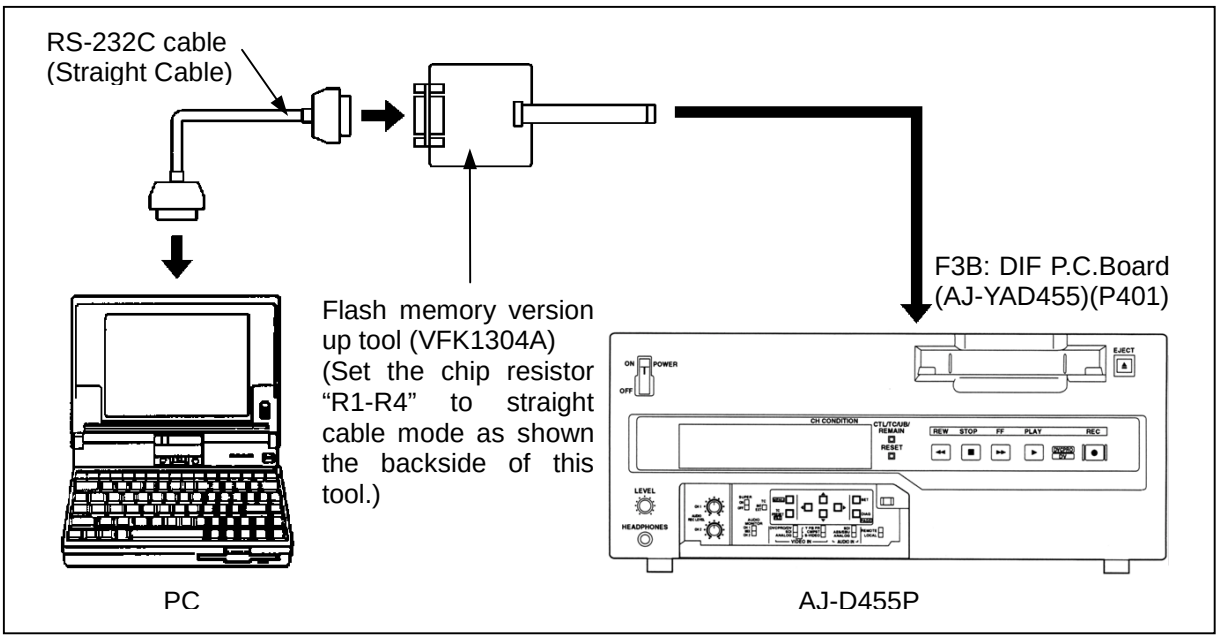
Set the VFK1304A to "STRAIGHT CABLE" mode as shown the backside of this tool.

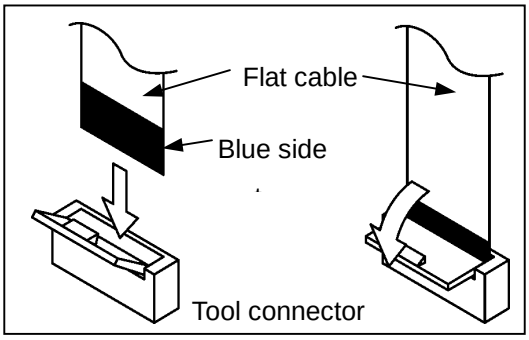
Confirm the switch settings of the "flash memory version up tool (VFK1304A)".

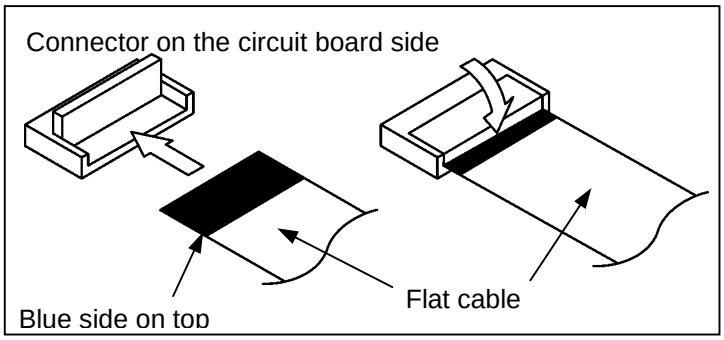
SW1-1: ON **SW1-3: OFF**
SW1-2: ON **SW1-4: OFF**

4. Connection of the flash memory version up tool

Turn off the power of the AJ-D455E and the personal computer and then connect them as shown in the following figure. Pay attention not to confuse the connection direction (top, bottom) for the flat cable of the flash memory version up tool (VFK1304A).

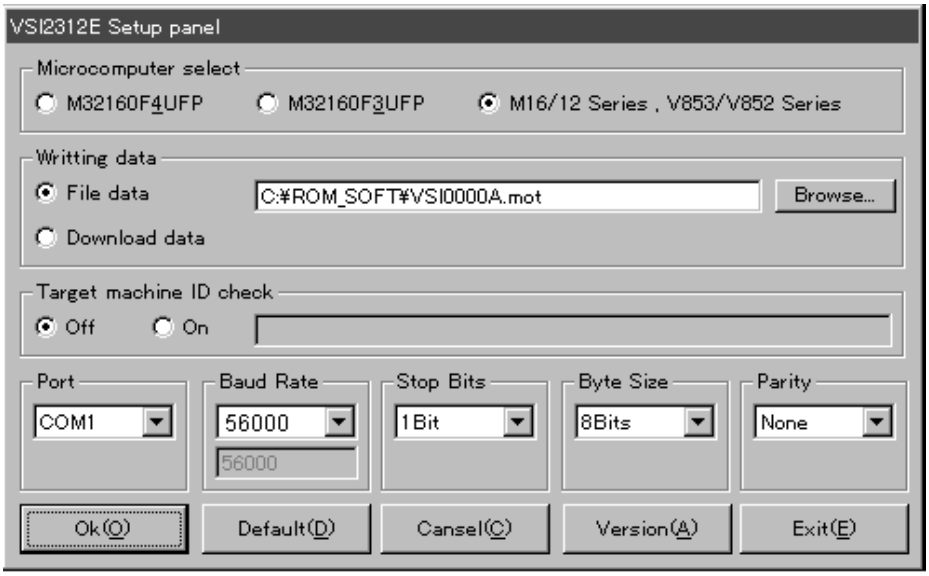






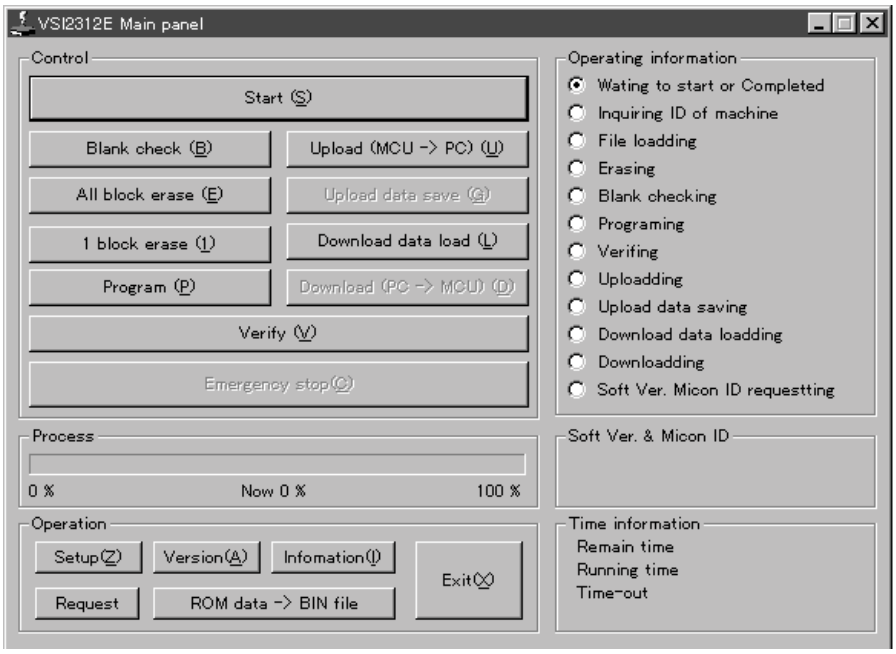
17-2-2. Version Upgrade Procedure

1. Boot up the personal computer in the condition which "**16-2-1. Version Upgrade Preparations**" is completed.
2. Turn on the power of the AJ-D455E. Confirm that the LED1 and LED2 on the DIF board should be OFF.
3. Start the flash memory version up software.
   (Double-click the program file "**VSI2312E.EXE**", which had been copied to arbitrary directory, or create a shortcut to "**VSI2312E.EXE**" and double-click the shortcut.)
4. When this program is started, the "Setup Panel" will open as shown below.

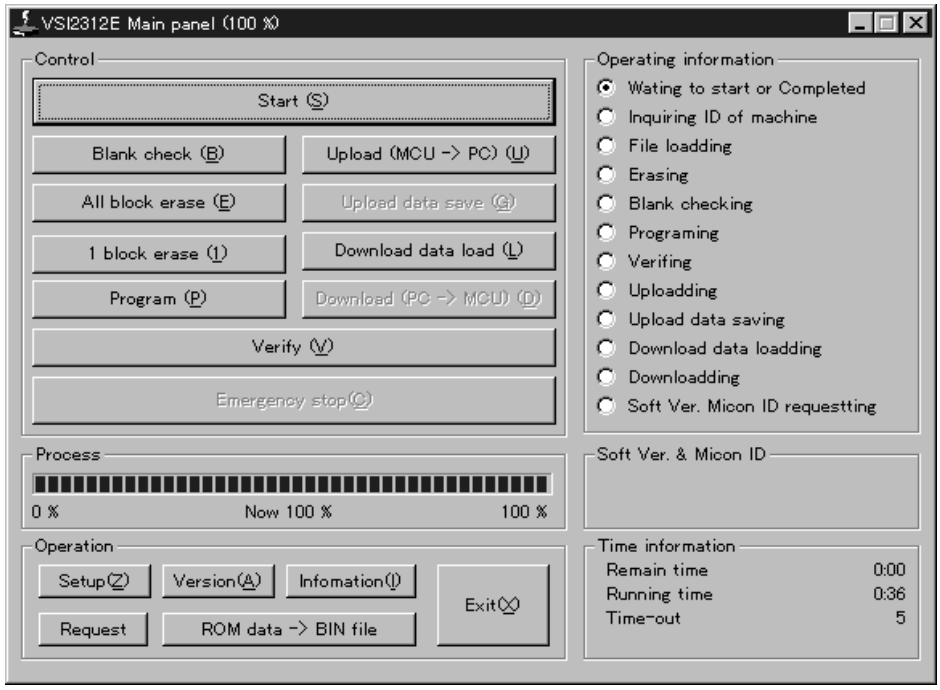


5. Perform the following settings on the "**Setup Panel**".
   - ○ Microcomputer select ····· **M16/12 Series. V853/852 Series**
   - ○ Writing data ····· **File data**
     Enter the new software (XXXX.mot) for the version upgrade with the full path. You can also use the "Browse..." button on the "Setup Panel" to select the file name and the location of the new software.
   - ○ Target machine ID check ····· **OFF**
   - ○ Port ····· Set the port which the RS-232C cable of the personal computer is connected to.
   - ○ Baud Rate ····· **56000**
   - ○ Stop Bits ····· **1Bit**
   - ○ Byte Size ····· **8Bits**
   - ○ Parity ····· **None**

6. When the settings on the “**Setup Panel**” is completed, click “**Ok(O)**”. The “**Main Panel**” will be opened as shown below.



7. Click “**Start (S)** ” on the “**Main Panel**”. (If you want to quit here, click “**Exit**”. If you want to return again to the “**Setup Panel**”, click “**Setup(Z)**”.)
8. After erasing of the flash memory, the new software will be written to the flash memory. During the processing, the progress status can be confirmed by means of the “**Process**” indicator. If the indicator should not advance for some reason, click “**Emergency stop(C)**” to stop the work, connect again, and confirm the settings.
9. When erasing and writing of the flash memory is completed, the “Process” indicator reaches 100%, and a black dot appears for “**Waiting to start or Complete**” of “**Operating information**”. (Next page)



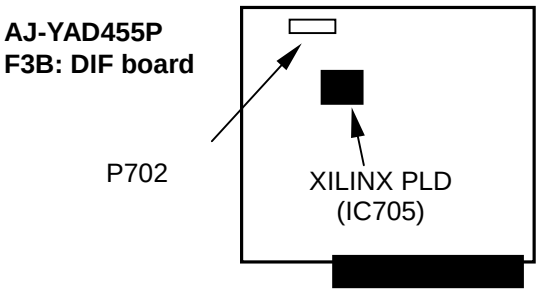
10. When the above status is reached, click “**Exit(X)** ” to end the program.
11. When the version upgrade is completed, turn off the power of the AJ-D455E and remove the version up tool.
12. Turn on the AJ-D455E power again and press the buttons “**PLAY**” and “**STOP**” at the front panel simultaneously to confirm that the version has been upgraded.

17-3. PLD Version Upgrade Procedure

The AJ-YAD455P uses **PLDs**. At the time of a version upgrade, use the special tool, connect the respective connection connectors, and use the PLD writing software.

17-3-1. PLD Chart

Circuit board name	Connector	Number of pins'	PLD No.	PLD maker	Use quantity
F3B: DIF (AJ-YAD455P)	P702	8P	XC95144XL (IC705)	XILINX	1



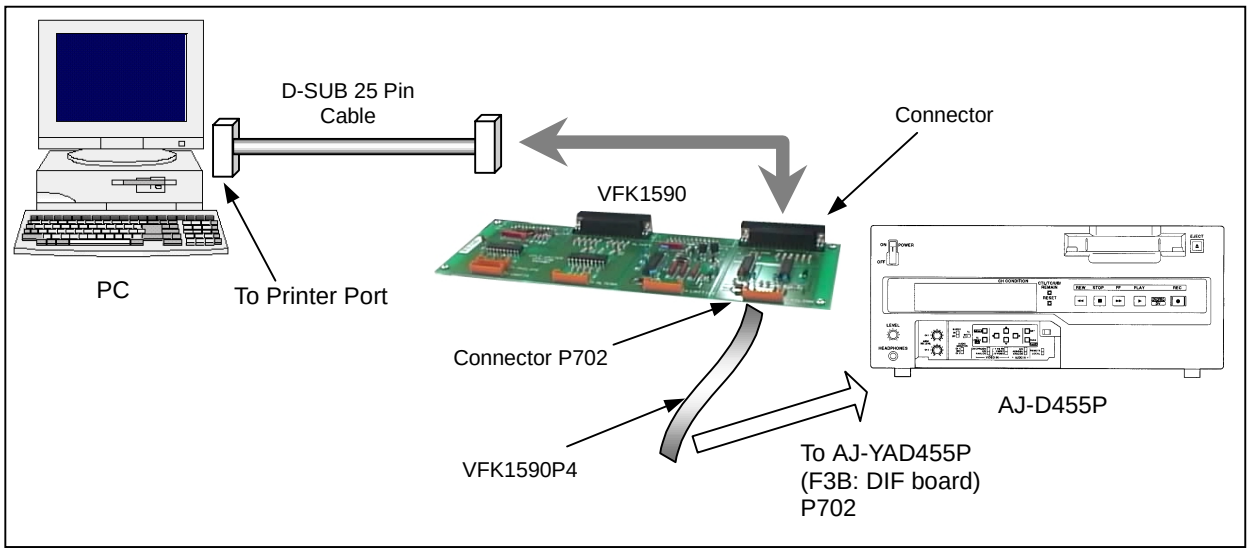
17-3-2. PLD Version up Method (XILINX)

A. Preparation

ITEM	REMARK
C PLD WRITER	VFK1590 VFK1590P4 (VFK1590 standard)
25pin-25pin Cable	Straight (Male - Female), Length : Within 1meter
Version Upgrade Software	JTAG Programmer Software Please download from the following URL http://www.xilinx.com/support/download.htm 1. Open this page and then select "WebPACK ISE". 2. Before downloading, Registration is required to get ID and Password. 3. Select FPGA and XPLA programmer from "Getting Start" menu.
Version Upgrade Data	cdf File (Include in VSI**** file)
Personal Computer	WINDOWS 95® or 98®

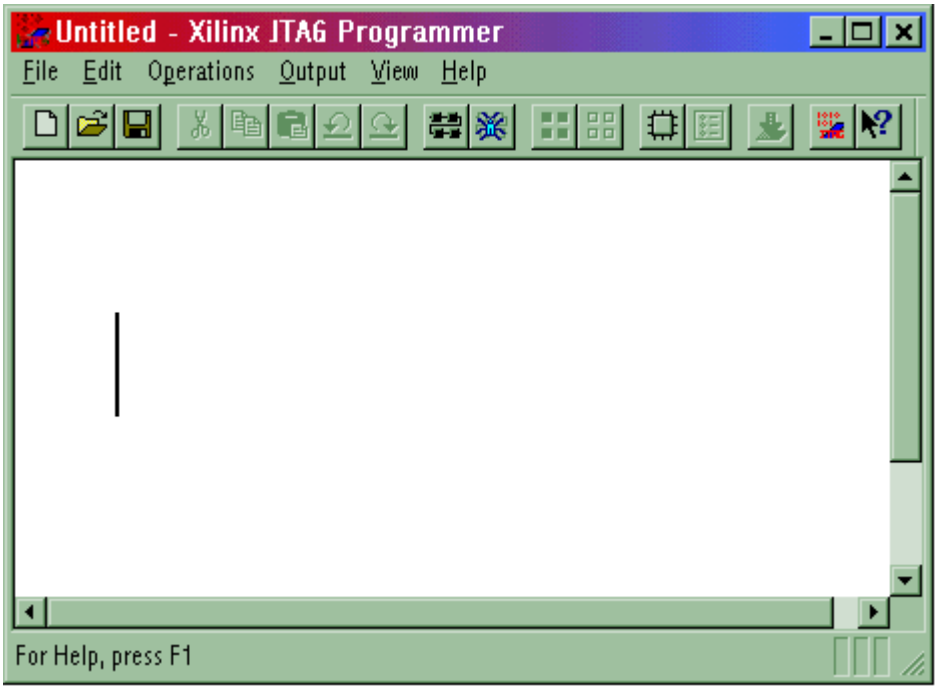
B. Connection

1. Connect the D-sub Cable between CN401 (for XILINX) connector of the CPLD WRITER(VFK1590) and Personal Computer (Printer port).
2. Connect the CPLD WRITER Cable (VFK1590P4) between connector on objective PCB and P4 connector of CPLD WRITER. (Refer to 16-3-1.Chart of PLD Writer and following figure.)
3. Turn on AJ-D455E and Personal Computer (Windows mode).

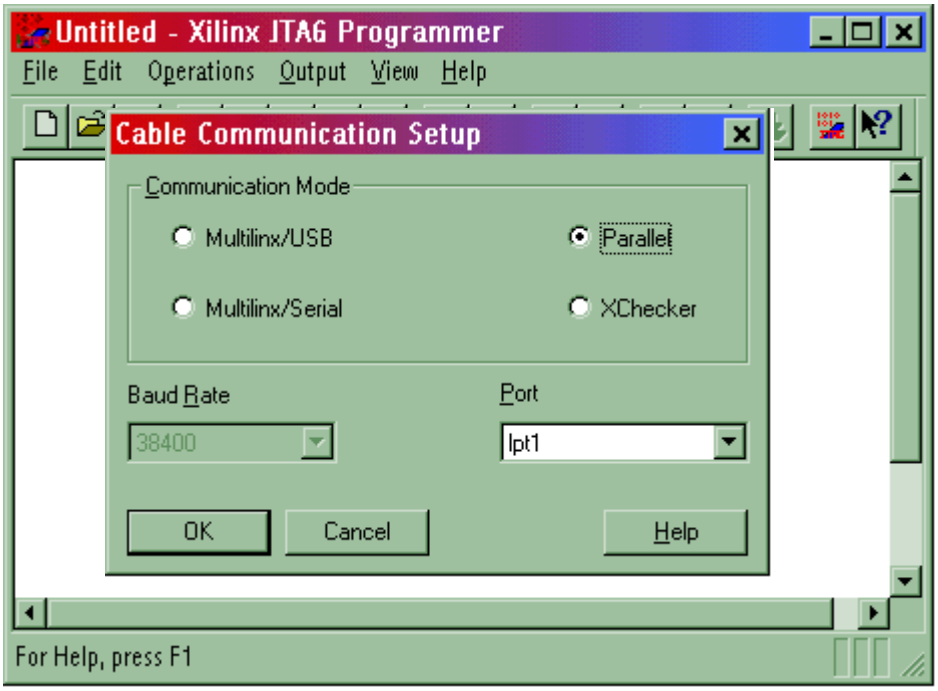


C. Boot up the Ver. Up Software and Ver. up Procedure

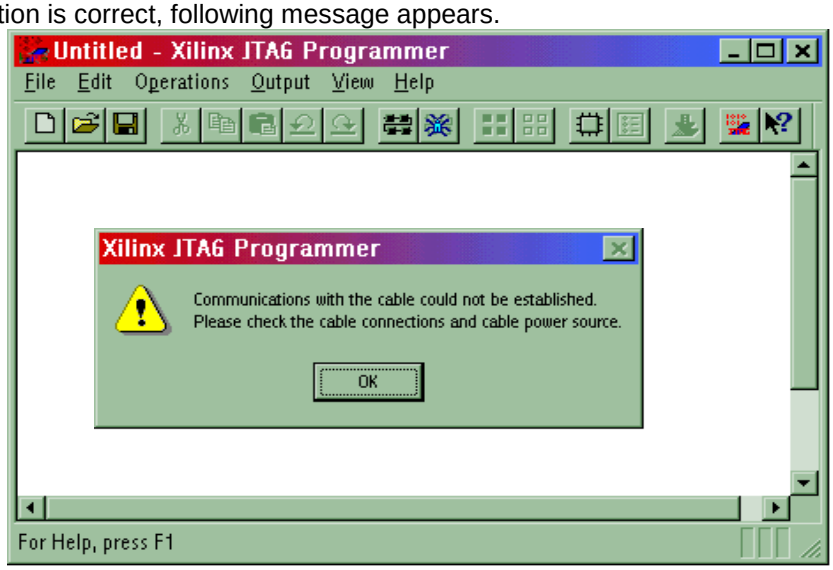
1. After download the program, **"Xilinx CPLD Webpack"** folder is created on windows. Click the start button of windows program **"Xilinx CPLD Webpack"**, then Device Program is boot up and following screen appears.



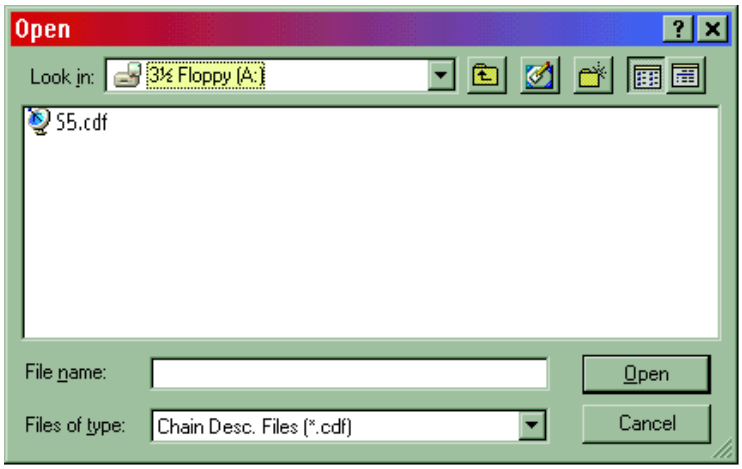
2. Click **"OUTPUT"** on the menu bar and select **"Parallel"** for **"Cable Communication Setup"** (default port is **"lpt1"**).



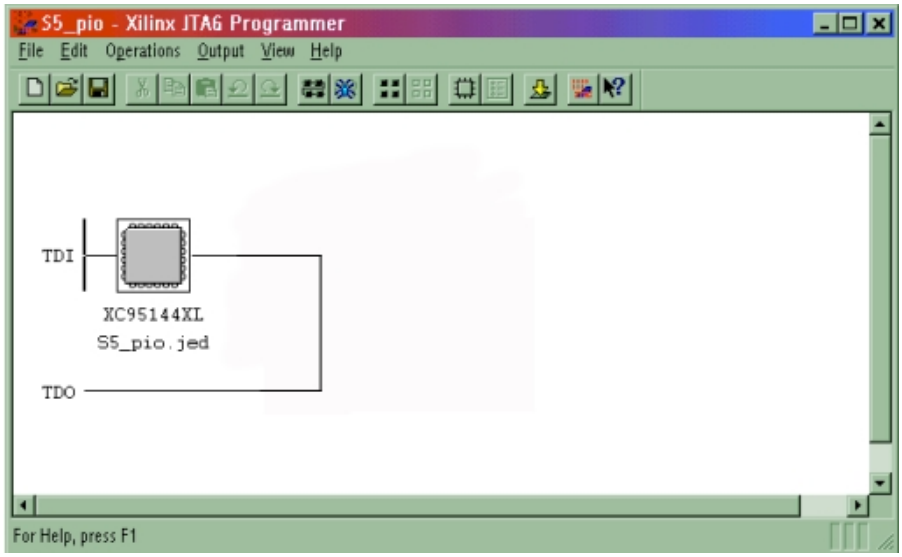
3. If connection is correct, following message appears.



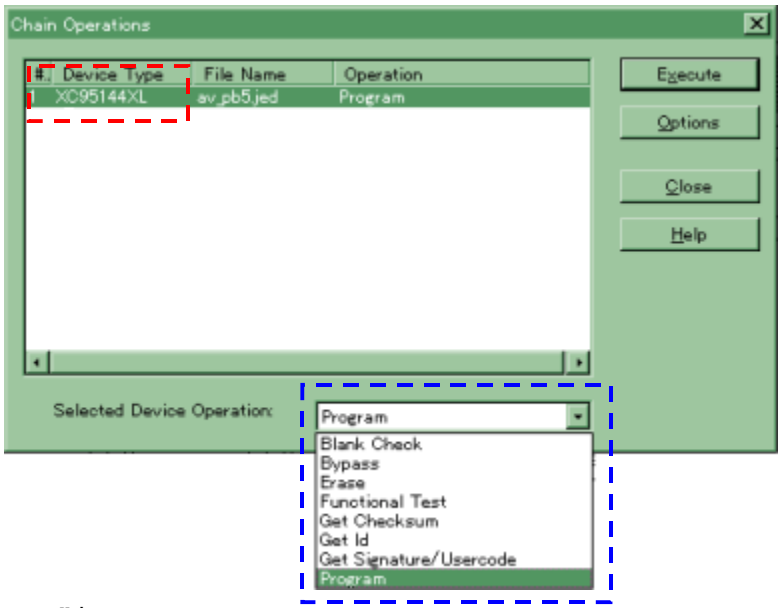
4. Click **"OK"** button.
5. Insert the floppy disk for version up data into A drive.
6. Open the target file. This file called Disk file, because one file can write several CPLDs like a chain.



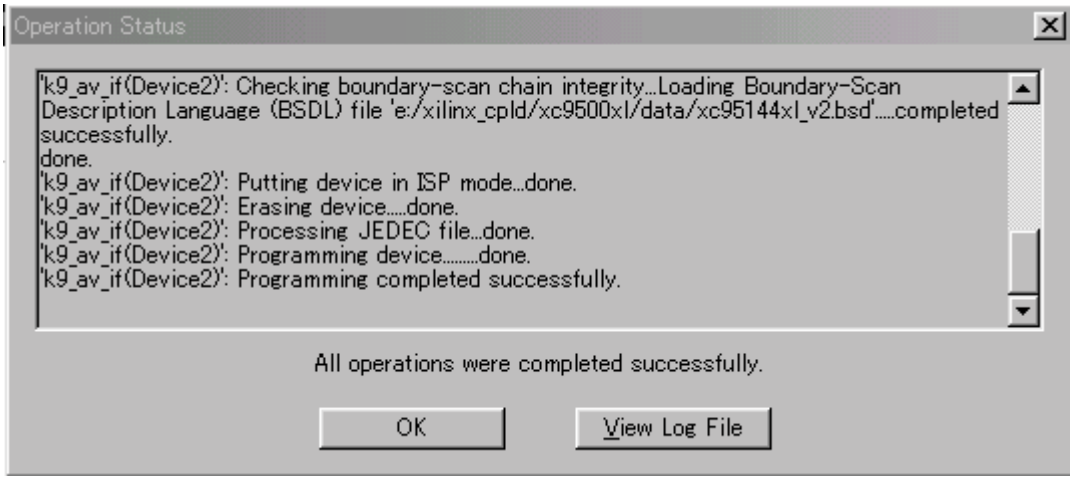
7. Click **"Open"** button, then following screen appears.



8. Then click **“Operations”** on menu bar and select **“Chain Operation”**. Then following screen appears.
9. Select the device from the **“Device Type”** column on the Chain Operation Window.
   Click the **“Selected Device Operation”** and select **“Program”**.
   Perform this procedure to all devices.



10. Click **“Execute”** button.
11. When the following screen with the message of **“All operation were completed successfully.”** appears, data writing is completed.



SECTION 2

DISASSEMBLY PROCEDURES

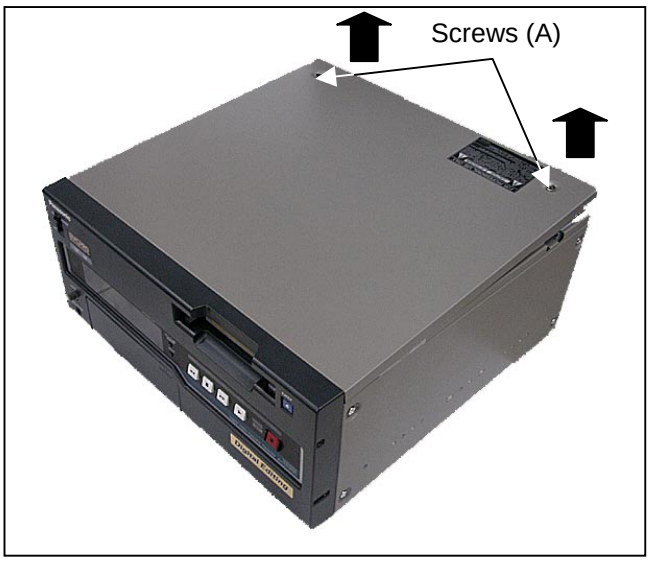
CONTENTS

1. DISASSEMBLY PROCEDURES DIS-1
   - 1-1. Removal of Top Panel DIS-1
   - 1-2. Removal of Bottom Panel DIS-1
   - 1-3. Removal of Front Panel Unit DIS-1
   - 1-4. Removal of Front Loading Unit DIS-1
   - 1-5. Removal of Mechanism Unit DIS-2
   - 1-6. Removal of Cylinder Unit DIS-3
   - 1-7. Removal of Power Supply Unit DIS-3
   - 1-8. Removal of Fan Motor DIS-3

DISASSEMBLE PROCEDURES

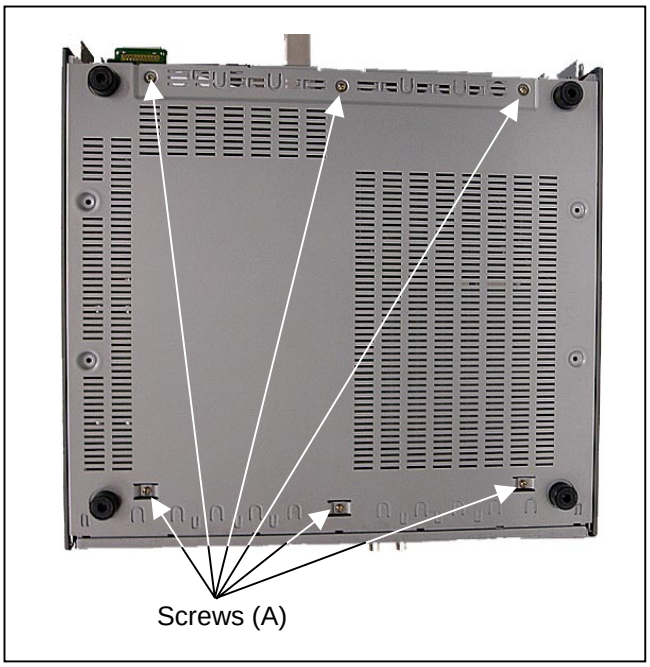
1-1. Removal of Top Panel

1. Loosen s screws (A) and remove the Top Panel.



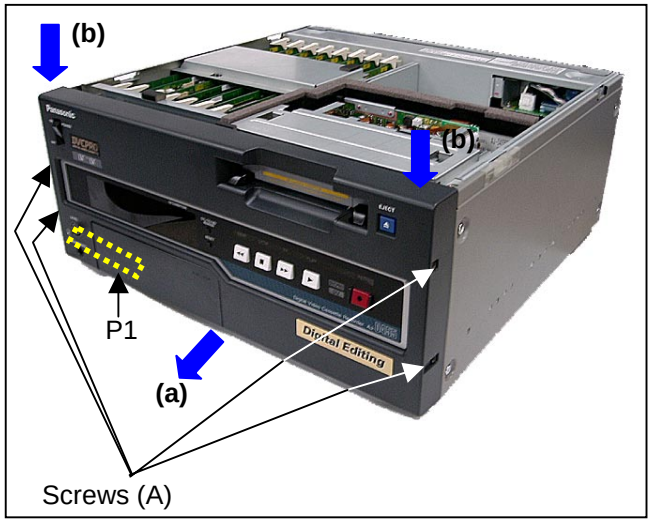
1-2. Removal of Bottom Panel

1. Unscrew the 6 screws (A) and remove the Bottom Panel.



1-3. Removal of Front Panel

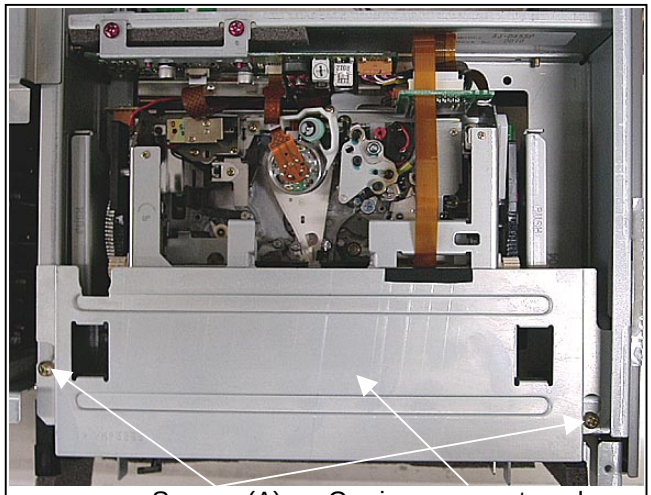
1. Unscrew the 4 screws (A) and remove the Front Panel.



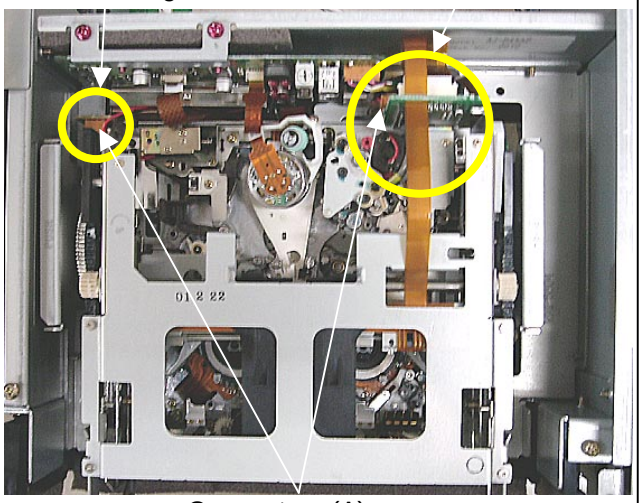
Notes:1. When remove the Front Panel, slightly pull the Front panel for direction in arrow **(a)** (disconnect a connector P1) and then remove the Front Panel for direction in arrow **(b)**.
2. After installation of Front Panel, confirm that the Blinder Panel is moved up and down smoothly by hand.
3. Check the connector has been connected securely.

1-4. Removal of Front Loading Unit

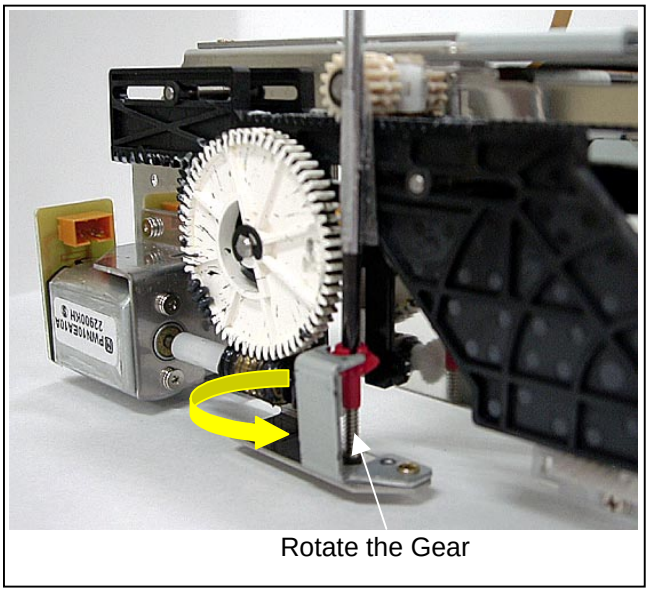
1. Remove the Front Panel. (Refer to item 1-3.)
2. Loosen 2 screws (A) and remove the Carriage support angle.



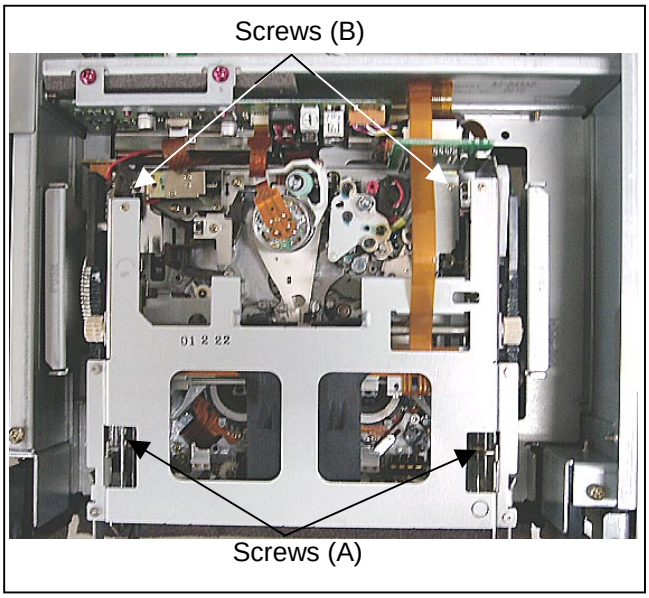
3. Disconnect 2 connectors (A) at Front Loading motor Board and the Interconnection Board.



4. Push and rotate the red plastic gear in front of the Front loading motor counterclockwise until the screw (A) which is used to fix the Front Loading Unit can be seen.

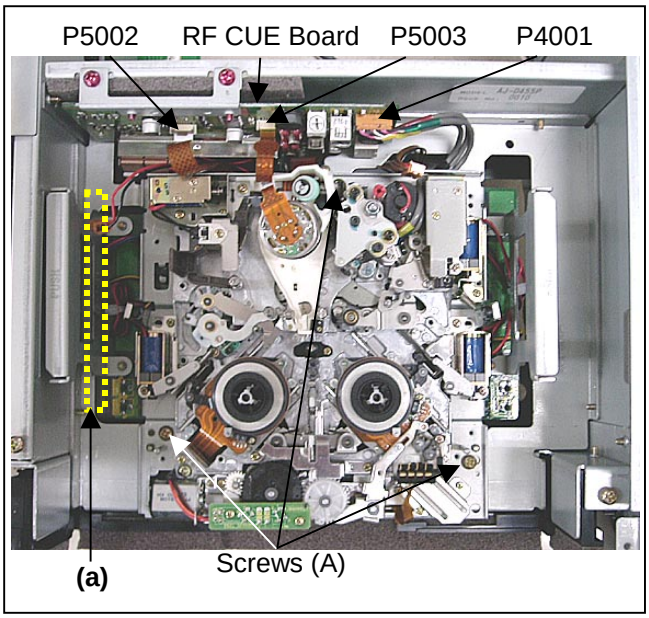


5. Unscrew the 4 screws (A) and (B), then remove the Front Loading Unit.



1-5. Removal of Mechanism Unit

1. Remove the Front Loading Unit. (Refer to item 1-4.)
2. Disconnect 3 connectors (P4001, P5002, P5003) which are connect to RF CUE Board.
3. Unscrew the 3 screws (A) and remove the Mechanism Unit.

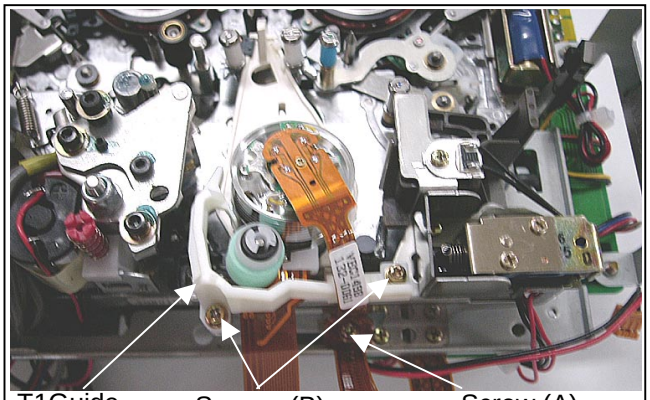


Notes:

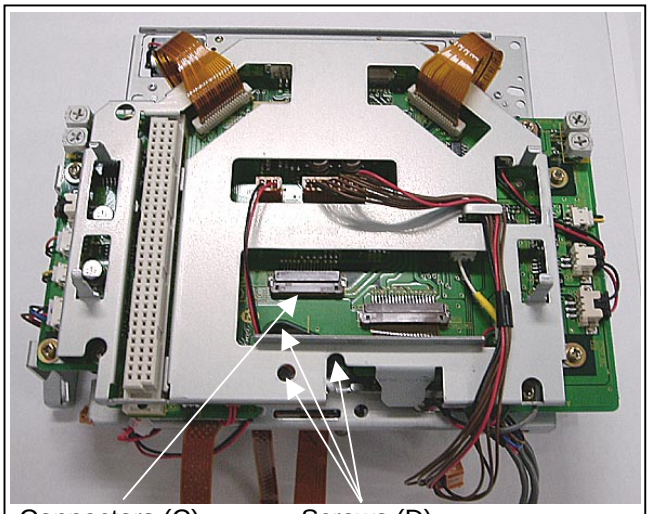
1. When remove the Mechanism Unit, the connector **(a)** which is connected to the Mother Board and Mechanism Unit is disconnected.
2. Check the connector has been connected securely.

1-6. Removal of Cylinder Unit

1. Remove the Mechanism Unit.
   Refer to item 1-5.
2. Unscrew a screw (A).
3. Unscrew the 2 screws (B) and remove the T1 Guide.

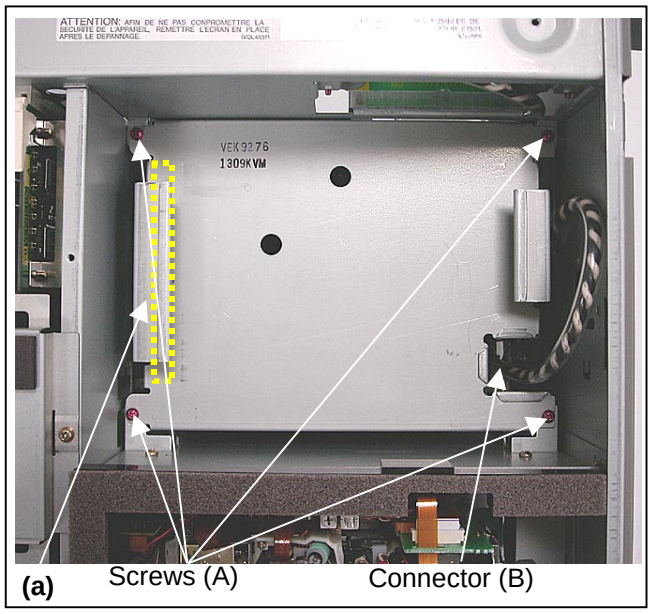


4. Disconnect a connector (C) which is connected to the Mech. I/F Board on the Mechanism bottom side.
5. Unscrew the 3 screws (D) which have spring, then remove the Cylinder Unit without touching any Mechanism parts.



1-7. Removal of Power Supply Unit

1. Unscrew the 4 screws (A) and lift-up the Power Supply Unit.
2. Disconnect a connector (B) and remove the Power Supply Unit.

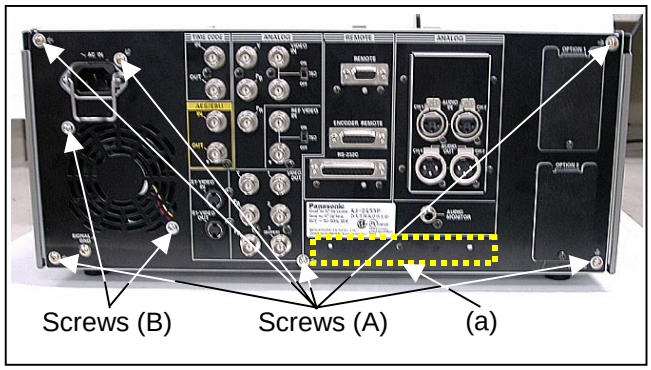


Notes:

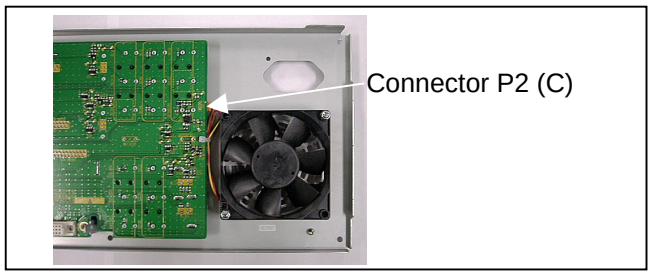
1. When remove the Power Supply Unit, the connector **(a)** which is connected to the Mother Board and Power Supply Unit is disconnected.
2. Check the connector has been connected securely.

1-8. Removal of Fan Motor

1. Unscrew the 6 screws (A) and remove the Rear Jack Panel.



2. Disconnect a connector P2 (C)
3. Unscrew the 2 screws (B) and remove the Fan Motor.



Notes:

1. When remove the Rear Jack Panel, the connector **(a)** which is connected to the Mother Board and Rear Jack Panel is disconnected.
2. Check the connector has been connected securely.

SECTION 3

ELECTRICAL ADJUSTMENT

CONTENTS

1. POWER SUPPLY UNIT ELE-1
   1-1. Power Supply Voltage Adjustment ELE-1

2. SERVO ELE-1
   2-1. SERVO FG Offset Adjustment ELE-1
   2-2. Reel Torque Gain Adjustment ELE-2
   2-3. Motor Torque Offset Adjustment ELE-2
   2-4. Tension Sensor Voltage Adjustment (1) ELE-3
   2-5. Tension Sensor Voltage Adjustment (2) ELE-3
   2-6. PG Shifter Adjustment ELE-4

3. RF/EQ (F8) ELE-5
   3-1. Adjustment Data Initialization ELE-6
   3-2. VCO Center Frequency Value Reading ELE-6
   3-3. Envelope Level Adjustment ELE-7
   3-4. Phase Compensation Adjustment ELE-7
   3-5. Confirmation of Error Rate and AEQ Tap Coefficient Values ELE-8
   3-6. REC Frequency Characteristic and REC Current Adjustment (DVCPRO 25M) ELE-9
   3-7. REC Frequency Characteristic and REC Current Adjustment (DV) ELE-10

4. V OUT (F2) ELE-11
   4-1. Connection ELE-11
   4-2. Reference PLL Center Frequency Adjustment ELE-12
   4-3. Reference CF Detection Adjustment ELE-12
   4-4. Composite Sync DC Level Adjustment ELE-13
   4-5. Composite Y Level Adjustment ELE-13
   4-6. Composite YC Timing Adjustment ELE-13
   4-7. Composite C Gain Adjustment ELE-13
   4-8. System Sub-Carrier Phase Adjustment ELE-14
   4-9. Component Sync DC Adjustment ELE-14
   4-10. Component Y Level Adjustment ELE-14
   4-11. Component Pb Level Adjustment ELE-15
   4-12. Component Pr Level Adjustment ELE-15
   4-13. Component Y-Pb Timing Adjustment ELE-15
   4-14. Component Y-Pr Timing Adjustment ELE-15

5. V IN (F5) ELE-16
   5-1. Connection and Menu Setting ELE-17
   5-2. PL DC Adjustment ELE-18
   5-3. Composite Color Demodulation Timing Adjustment ELE-18
   5-4. Composite SCH Detection Adjustment ELE-18
   5-5. YC IN Color Demodulation Timing Adjustment ELE-19
   5-6. YC IN SCH Detection Adjustment ELE-19

5-7. Component Y signal level Adjustment ELE-20
5-8. Component Y Signal Offset level Adjustment ELE-20
5-9. Component Pb Signal Offset level Adjustment ELE-21
5-10. Component Pr signal Offset level Adjustment..... ELE-21
5-11 Component Pb signal Level Adjustment ELE-22
5-12. Component Pr Signal Level Adjustment ELE-22
5-13. Component Pb Signal Timing Adjustment ELE-23
5-14. Component Pr Signal Timing Adjustment ELE-23
5-15. Composite Y signal Level Adjustment..... ELE-24
5-16. Composite Y Signal Offset level Adjustment..... ELE-24
5-17. Composite Pb Signal Offset level Adjustment..... ELE-25
5-18. Composite Pr signal Offset level Adjustment ELE-25
5-19. Composite Pb signal Level Adjustment..... ELE-26
5-20. Composite Pr Signal Level Adjustment..... ELE-26
5-21. Composite Pb/Pr Signal Timing Adjustment ELE-27
5-22. Composite Video Out Phase Adjustment..... ELE-28
5-23. Composite Vector Adjustment..... ELE-28
5-24. Y Signal Level (YC IN) Adjustment ELE-29
5-25. Y Signal Offset Level (YC IN) Adjustment..... ELE-29
5-26. Pb Signal Offset level (YC IN) Adjustment..... ELE-30
5-27. Pr Signal Offset level (YC IN) Adjustment..... ELE-30
5-28. Pb signal Level (YC IN) Adjustment..... ELE-31
5-29. Pr signal Level (YC IN) Adjustment..... ELE-31
5-30. Pb/Pr Signal Timing (YC IN) Adjustment ELE-32
5-31. YC IN Vector Adjustment ELE-33

6. AUDIO (F1) and RF/CUE ELE-34
6-1. Setting ELE-34
6-2. CH1, CH2 Output Level Adjustment..... ELE-34
6-3. CH1, CH2 Input Level Adjustment ELE-34
6-4. CUE BIAS CURRENT Adjustment..... ELE-35
6-5. CUE PB Level Adjustment ELE-35
6-6. CUE REC/PB Level Adjustment..... ELE-35

7. TP, VR, SW Location..... ELE-36

1. POWER SUPPLY UNIT

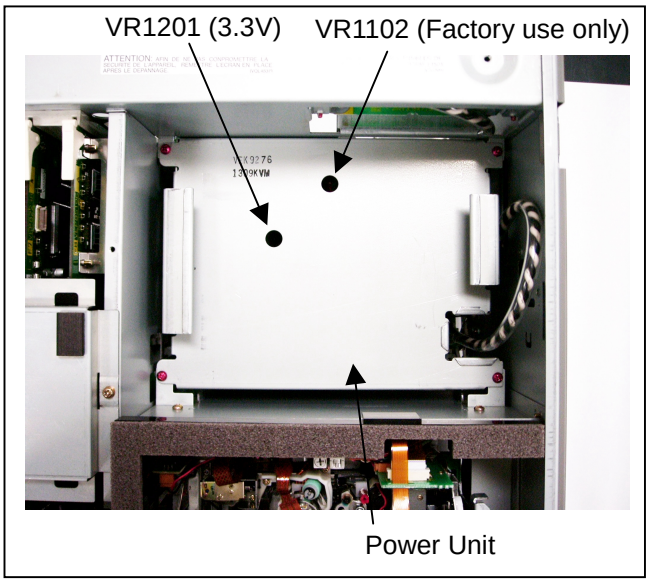
1-1. Power Supply Voltage Adjustment

BOARD	POWER UNIT
TP	TP6 (+3.3V) (on the extension board)
ADJ.	VR1201 (+3.3V)
TAPE	-----
INPUT	-----
MODE	EJECT
M. EQ	Digital Voltmeter
SPEC.	+3.35V ± 0.05V

1. Extend the Servo (F7) board with extension board.
2. Turns ON the power switch, and set to “EJECT” mode.
3. Connect Digital Voltmeter to TP6 on the extension board, and adjust VR1201 so that the DC voltage is in the specification.

<Note>

The VR1102 is for factory, use only.



2. SERVO

2-1. SERVO FG Offset Adjustment

BOARD	SERVO (F7)
TP	-----
ADJ.	Service Menu
TAPE	-----
INPUT	-----
MODE	EJECT
M. EQ	-----
SPEC.	-----

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **A00: SERVO ADJUST** and press the “SET” button to open the SERVO ADJUST MENU.
3. Select the **A01 FG DC ADJ**, and Press the “ ▶ ” button continuously until “OK” sign is displayed on the right side of A01 FG DC ADJ. (It takes 5-10 seconds.) (During automatic adjustment, the reel motor and brake solenoid are moving.)
4. Close the menu.

<Note>

1. When “NG” sign is displayed or becoming the “AUTO OFF”, do not insert the tape. Check the mechanism condition and servo circuit.
2. When the parts of mechanism is disassembled and assembled, before inserting a cassette tape, implement this adjustment.
3. When repairing or changing the mechanism (Capstan/Reel), Servo (F7) board, or Syscon (F6) board, implement this adjustment.

2-2. Reel Torque Gain Adjustment

BOARD	SERVO (F7)
TP	-----
ADJ.	Service Menu
TAPE	-----
INPUT	-----
MODE	EJECT
M. EQ	Monitor TV
SPEC.	-----

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **A00: SERVO ADJUST** and press the "SET" button to open the SERVO ADJUST MENU.
3. Select the **A02:RL GAIN ADJ** by using the "▲" or "▼" button.
4. Press the "▶" button continuously until the two kind of numeric value displayed on the right side of **RL GAIN ADJ** goes off one time. Release the "▶" button when the both two new numeric value has been updated. (It takes 5-6 seconds.)
5. Perform the Item 4 again. And confirm the numeric value is changed to new value.
6. Close the menu.

<Note>

1. When the new numerical value isn't displayed, check the reel brake which wasn't turned while pressing the "▶" button.
2. Before "2-3. Motor Torque Offset Adjustment", implement this adjustment.

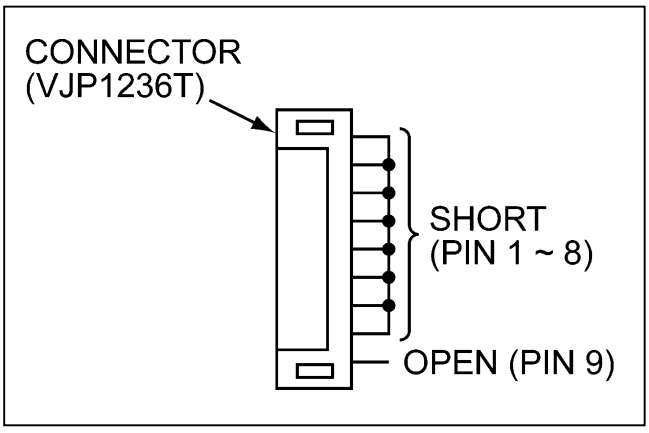
2-3. Motor Torque Offset Adjustment

BOARD	SERVO (F7)
TP	S,T REEL TABLE
ADJ.	SERVICE MENU
TAPE	-----
INPUT	-----
MODE	EJECT
M. EQ	VFK1191 (Dial Torque Gauge) VFK1152 (Dial Torque Gauge Adaptor)
SPEC.	0.15 ± 0.02 cNm (15g-cm ± 2g-cm) (5 times average)

1. Remove the Front Loading Unit. (Refer to SEC2 Disassembly Procedures)
2. Connect the Carriage tool (see the following figure) to connector P1 which is coming from the MECH. I/F board to Carriage board of the front loading unit.
3. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
4. Select the **A00: SERVO ADJUSTS** and press the "SET" button to open the Servo Adjust menu.
5. Select the **A03: T TORQUE**.
6. Set a Dial Torque Gauge to top of Take-up Reel Table.
7. Press the STOP button and measure the value of Dial Torque Gauge 5 times, then calculate the average and adjust "T TORQUE" with EVR so that the average is in the specification.

Note: While pressing the STOP button, the REEL Table is rotated.

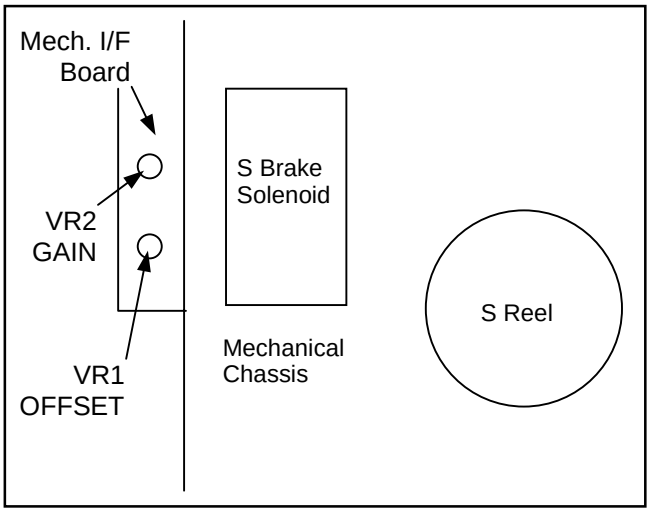
8. Select the item **A04: S TORQUE**.
9. Set a Dial Torque Gauge to top of Supply Reel Table.
10. Press the STOP button and measure the value of Dial Torque Gauge 5 times, then calculate the average and adjust "S TORQUE" with EVR so that the average is in the specification.



2-4. Tension Sensor Voltage Adjustment (1)

BOARD	SERVO (F7)
TP	TP201
ADJ.	VR1 (OFFSET) on the Mech. I/F board
TAPE	-----
INPUT	-----
MODE	EJECT
M. EQ	Digital voltmeter
SPEC.	2.5V ± 0.05V

1. Connect the Digital voltmeter to TP201.
2. Adjust the VR1 on the Mech. I/F board so that the DC voltage is in the specification.

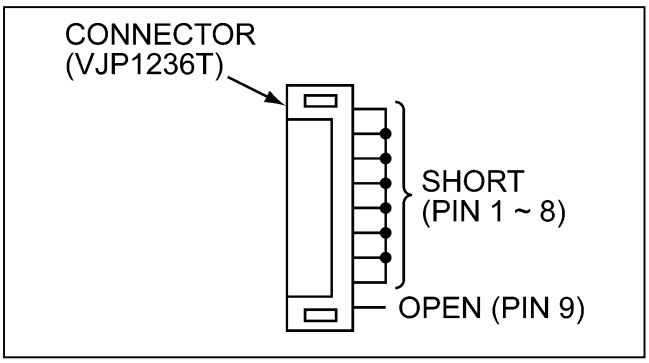


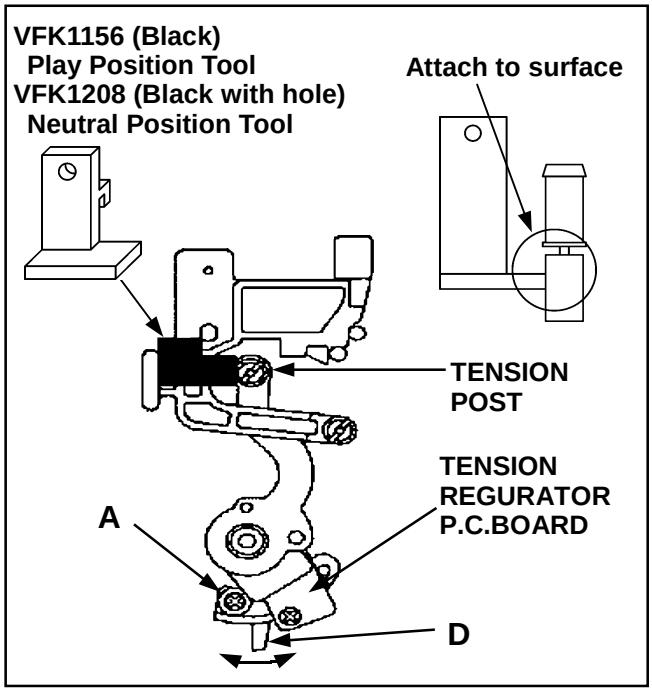
2-5. Tension Sensor Voltage Adjustment (2)

BOARD	SERVO (F7)
TP	TP201
ADJ.	VR2 (GAIN)
TAPE	-----
INPUT	-----
MODE	EJECT
M. EQ	Digital voltmeter, VFK1208 (Neutral Position Tool, Black with hole) VFK1156 (PLAY Position Tool, Black)
SPEC.	2.5V ± 0.05V

NOTE:
Do not use magnetized tweezers and screwdriver.
Do not touch the magnetize screwdriver to S-Reel FG magnet portion, while adjusting the lever (D) portion.

1. Remove the Front Loading Unit. (Refer to SEC2 Disassembly Procedures)
2. Connect the Carriage tool (see the following figure) to connector P1 which is coming from the MECH. I/F board to Carriage board of the front loading unit.
3. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
4. Select the **A00: SERVO ADJUST** and press the "SET" button to open the SERVO ADJUST MENU.
5. Select the **A08 TENSION**.
6. Install the VFK1208 (black with hole) as shown in figure.
7. Connect the Digital voltmeter to TP201.
8. Press the " ▸ " button, then display the ON sign at the right side of A08 TENSION. At the same time the loading is started.
9. Confirm the DC voltage at TP201 is in the specification. If it is not, adjust the sensor position as follows.
   Loosen the screw (A) and move the lever (D) with tweezers. After adjusting, press the " ◂ " button to set the unloading position.
10. Remove the VFK1208 (black with hole), and install the VFK1156 (Black) as same way as VFK1208.
11. Press the " ▸ " button to set the loading position.
12. Adjust the VR2 (GAIN) on the Mech. I/F board so that the DC voltage at TP201 is in the specification.

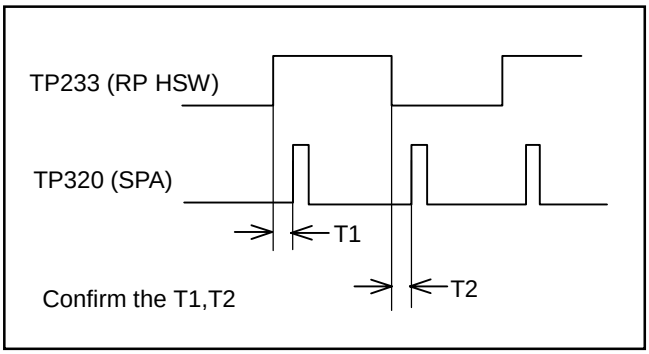




2-6. PG Shifter Adjustment

BOARD	SERVO (F7)
TP	TP233 (RP HSW) TP320 (SPA)
ADJ.	Service Menu
TAPE	VFM3680KM/KL
INPUT	-----
MODE	EJECT
M. EQ	Oscilloscope
SPEC.	T1, T2 = 126.4 ± 4μs

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **A00: SERVO ADJUST** and press the "SET" button to open the SERVO ADJUST MENU.
3. Select the **A05 PG SHIFT 25**.
4. Playback the colour bar portions of the 25M alignment tape.
5. Press the "▶" button continuously until the numeric value displayed on the right side of PG shift 25 goes off one time. Release the "▶" button when the new numeric value has been updated.
6. Connect a scope to TP233 and TP320.
   Confirm the T1 and T2 are in the specification.
7. Close the menu.



3. RF/EQ (F8)

The adjustment of this section should be performed after adjusting the Servo (F7) board.

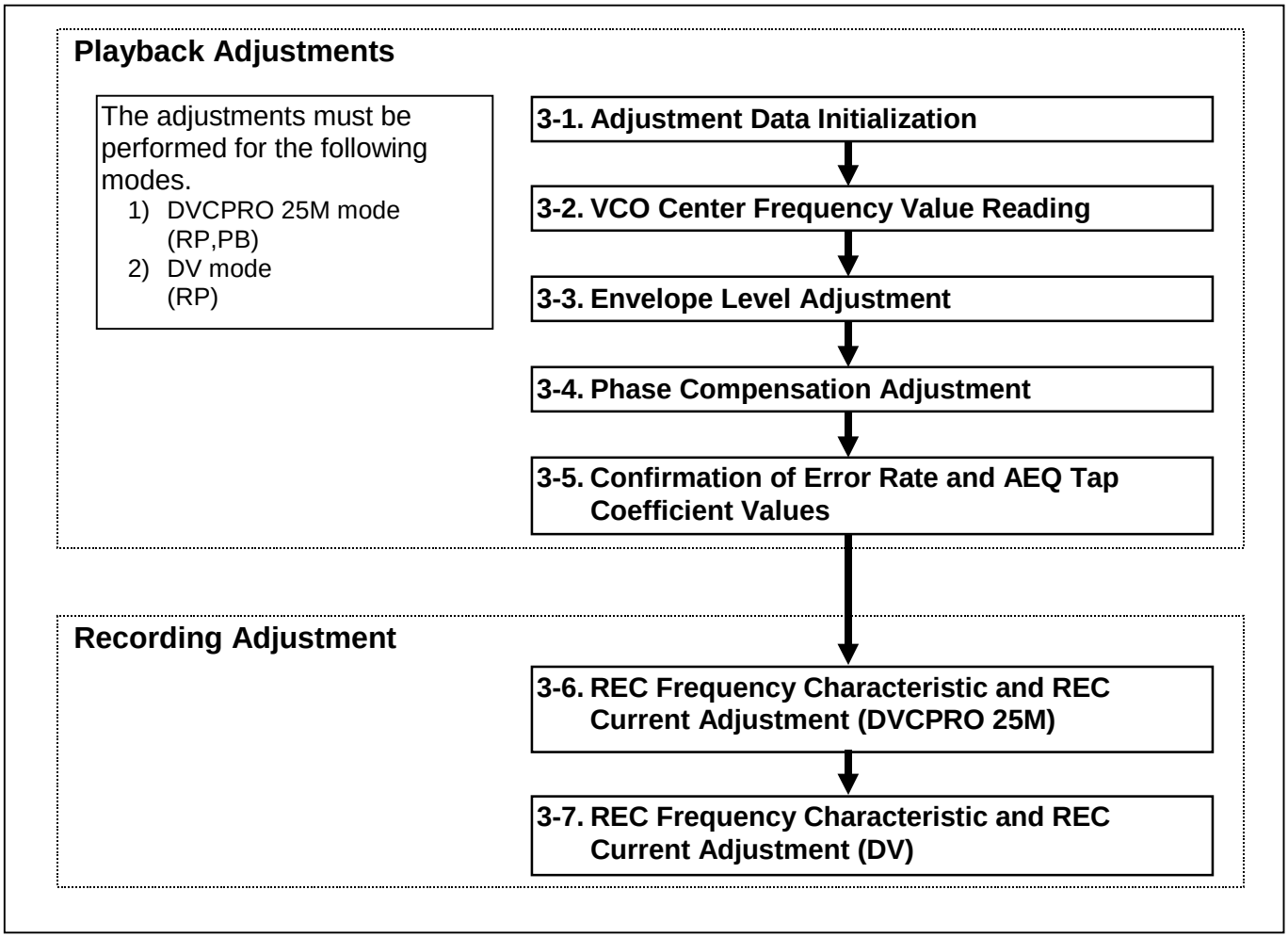
This adjustment mainly uses the Service Menu. The procedures for opening the menu, changing the settings and closing the menu are described below.

1. Opening the Service Menu
   a) Press the **"MENU"** button to open the set-up menu.
   b) Press the **"STOP"** button and **"EJECT"** button simultaneously and press the **"MENU"** button again.
   c) The Service Menu is superimposed on the VIDEO OUT 3 out put signal.

2. Changing the Setting
   Caution : The changing of the setting can only be performed when the tape is inserted.
   a) Press the **"▲ and/or ▼"** button and move the cursor (*) to the desired setting or adjustment page and press the **"SET"** button to open the adjustment page.
   b) Press the **"▲ and/or ▼"** button and move the cursor (*) to the desired setting or adjustment item and press the **"◀ and/or ▶"** button to change the setting value.

3. Closing the Service menu
   a) After the settings change is completed, press the MENU button to close the service menu.

Perform the adjustments of these items according to the following flowchart.



3-1. Adjustment Data Initialization

Initialize the adjustment values for the following items before starting the adjustment. (It may not be possible to obtain the best values if the adjustment is performed without the initialized values.)

1. Insert the DVCPRO alignment tape. (VFM3680KM or (L)).
2. Open the Service Menu.
3. Open the **B00: RF ADJUST** in the Service Menu.
4. Open the **C00: PRO ADJUST** in the Service Menu.
5. Open the **C-4 DEFAULT** in the Service Menu.
6. Select **INIT LOAD**. And press the SET button to complete the initialization of the 25M mode adjustment values.
7. Press the MENU button two times and return to the RF ADJUST menu.
8. Insert the DV adjustment tape.
9. Open the **D00: DV ADJUST** in the Service Menu.
10. Open the **D-4 DEFAULT** in the Service Menu.
11. Select **INIT LOAD** and press the SET button to complete the initialization of the DV mode adjustment values.

3-2. VCO Center Frequency Value Reading

BOARD	RF/EQ (F8)
TP	-----
ADJ.	Service Menu
TAPE	-----
INPUT	-----
MODE	EJECT
M. EQ	-----
SPEC.	-----

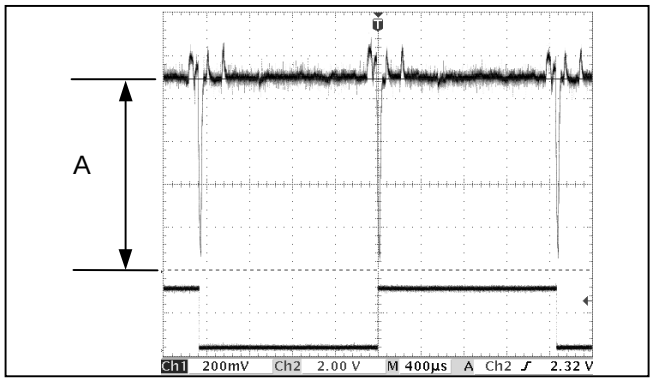
<Caution>
Set to the EJECT mode before performing the following operations.
(If the EJECT mode is not set and these operations described below are performed in the PLAY and REC mode, item 3-5 Confirmation of Error Rate and AEQ Tap Coefficient Values may be wrong. In this case, perform the procedures described in item 3-1. Adjustment Data Initialization.)

1. Open the Service Menu.
2. Open the **B00: RF ADJUST** in the Service Menu.
3. Open the **C00: PRO ADJUST** in the Service Menu.
4. Open the **C-2: RP ADJUST** in the Service Menu.
5. Select the **C32: IC READ** and change the setting from “OFF” to **“SINGLE”**.
6. Press the SET button to set the **C: 19 VCO** adjustment value automatically.
7. Select the **C32: IC READ** and change the setting from “SINGLE” to **“OFF”**. Press the **“SET”** button.
8. Press the MENU button to return to the **C00: PRO ADJUST** menu.
9. Open the **C-3: PB ADJUT** in the Service Menu.
10. Select the **C32: IC READ** and change the setting from “OFF” to **“SINGLE”**.
11. Press the SET button to set the **C19: VCO** adjustment value automatically.
12. Select the **C32: IC READ** and change the setting from “SINGLE” to **“OFF”**. Press the **“SET”** button.
13. Press the **“MENU”** button two times and return to the **RF ADJUST** menu.
14. Open **D00: DV ADJUST** in the Service Menu.
15. Open **D-2: RP ADUJST** in the Service Menu.
16. Select **D32: IC READ** and change the setting from “OFF” to **“SINGLE”**.
17. Press the **SET** button to set the **D19: VCO** adjustment value automatically.
18. Select the **C32: IC READ** and change the setting from “SINGLE” to **“OFF”**. Press the **“SET”** button.

3-3. Envelope Level Adjustment

BOARD	RF/EQ (F8)
TP	TP20, TP10, TP2 (Trigger)
ADJ.	Service Menu
TAPE	625(PAL): VFM3680KM (L)/VFM3110EDS Alignment Tape (Colour Bar)
INPUT	Colour bar
MODE	PLAY
M. EQ	Oscilloscope
SPEC.	+0.8VDC ± 0.1VDC

1. Extend the RF/EQ (F8) board.
2. Connect the oscilloscope CH1 to TP20 (500mV/DIV, 1msec) and CH2 to TP2 (5V/DIV, 1msec). Set the Trigger channel to CH2. And set the 20MHz BW LIMIT to ON.
3. Play back the alignment tape (VFM3680KM (L)).
4. Open **B00 RF ADJUST** in the Service Menu.
5. Open **C00 PRO ADJUST** in the Service Menu.
6. Open **C-2: RP ADJUST** in the Service Menu.
7. Adjust **C03: RF MAG L** and **C04: RF MAG R** in the Service Menu so that the TP20 (CH1) DC voltage **"A"** is in the specification. (Refer to the following figure.)
8. Press the **"SET"** button when the adjustment is completed.
9. Change the connection of the oscilloscope CH1 to TP10 (500mV/DIV, 1msec).
10. Playback the alignment tape (VFM3680KM (L))
11. Open **B00 RF ADJUST** in the Service Menu.
12. Open **C00 PRO ADJUST** in the Service Menu.
13. Open **C-3: PB ADJUST** in the Service Menu.
14. Adjust **C03: RF MAG L** and **C04: RF MAG R** in the Service Menu so that the TP10 (CH1) DC voltage **"A"** is in the specification. (Refer to the following figure.)
15. Press the **"SET"** button when the adjustment is completed.
16. With the same connection of the oscilloscope, playback the DV alignment tape (VFM3110EDS).
17. Open **B00 RF ADJUST** in the Service Menu.
18. Open **D00 DV ADJUST** in the Service Menu.
19. Open **D-2: RP ADJUST** in the Service Menu.
20. Adjust **C03: RF MAG L** and **C04: RF MAG R** in the Service Menu so that the TP10 (CH1) DC voltage **"A"** is in the specification. (Refer to the following figure.)
21. Press the **"SET"** button when the adjustment in completed.



3-4. Phase Compensation Adjustment

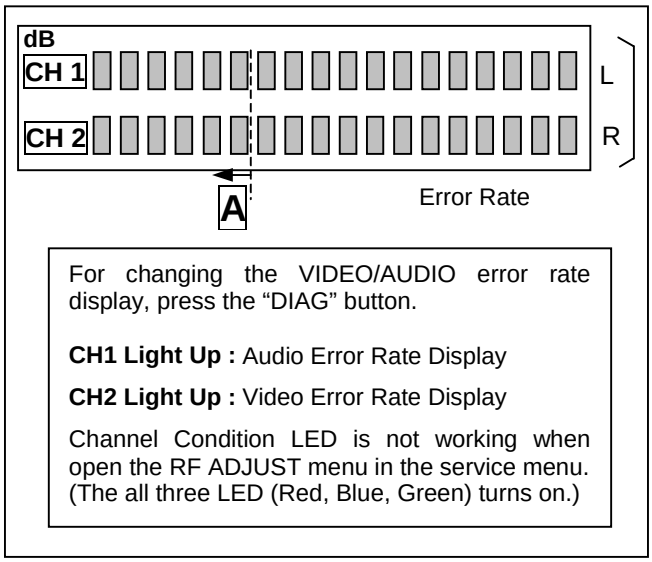
BOARD	RF/EQ (F8)
TP	Audiometer (Error Rate Display)
ADJ.	Service Menu.
TAPE	625(PAL): VFM3680KM (L)/VFM3110EDS Alignment Tape (Colour Bar)
INPUT	Colour bar
MODE	PLAY
M. EQ	Oscilloscope
SPEC.	Error Rate = Minimum

1. Install to the circuit board that was extended in the previous adjustment item.
2. Insert the DVCPRO (VFM3680KM (L)) alignment tape and play it back.
3. Open the Service Menu.
4. Open the **B00: RF ADJUST** in the Service Menu.
5. Open the **C00: PRO ADJUST** in the Service Menu.
6. Open the **C-2: RP ADJUST** in the Service Menu.
7. Select the **C40: VITERBI MODE** and change the setting from "ON" to **"OFF"**.
8. Select **C41: AEQ MODE** and change the setting from "ON" to **"OFF"**.
9. Adjust the **C01: RF PHS L** and **C02: RF PHS R** so that the error rate is at the minimum level.
   (Set the adjustment values to the maximum number and adjust the error rate from the incorrect condition.)
   Press the **"SET"** button when the adjustment is completed.
10. Press the **"MENU"** button to return to the **C00: PRO ADJUST** in the Service Menu.
11. Open the **C-3: PB ADJUST** in the Service Menu.
12. Select the **C40: VITERBI MODE** and change the setting from "ON" to **"OFF"**.
13. Select **C41: AEQ MODE** and change the setting from "ON" to **"OFF"**.
14. Adjust the **C01: RF PHS L** and **C02: RF PHS R** so that the error rate is at the minimum level.
    (Set the adjustment values to the maximum number and adjust the error rate from the incorrect condition.)
    Press the **"SET"** button when the adjustment is completed.
15. Insert the DV alignment tape (VFM3110EDS) and play it back.
16. Open the **D00: DV ADJUST** in the Service Menu.
17. Open the **D-2: RP ADJUST** in the Service Menu.
18. Select the **D40: VITERBI MODE** and change the setting from "ON" to **"OFF"**.
19. Select the **D41: AEQ MODE** and change the setting from "ON" to **"OFF"**.
20. Adjust the **D01: RF PHS L** and **D02: RF PHS R** so that the error rate is at the minimum level.
    (Set the adjustment values to the maximum number and adjust the error rate from the incorrect condition.)
    Press the **"SET"** button when the adjustment is completed.

3-5. Confirmation of Error Rate and AEQ Tap Coefficient Values

BOARD	RF/EQ (F8)
TP	Audiometer (Error Rate Display).
ADJ.	Service Menu
TAPE	625(PAL): VFM3680KM (L)/VFM3110EDS Alignment Tape (Colour Bar)
INPUT	-----
MODE	PLAY
M. EQ	-----
SPEC.	-----

1. Insert the DVCPRO alignment tape (VFM3680KM (L)) and play it back.
2. Open the Service Menu.
3. Open the **B00: RF ADJUST** in the Service Menu.
4. Open the **C00: PRO ADJUST** in the Service Menu.
5. Open the **C-2: RP ADJUST** in the Service Menu.
6. Select the **C44: ERROR MODE** and change the setting "FAST" to **"SLOW"**.
7. Check the VIDEO/AUDIO error rate level of the audiometer on the front panel. Make sure that it is below level **"A"** shown in the figure.
8. Select the **C32: IC READ** and change the setting from "OFF" to **"SINGLE"**.
9. Press the **"SET"** button to set the AEQ tap coefficient automatically.
10. Select the **C32 IC READ** and change the setting from "SINGLE" to **"OFF"**. Press the **"SET"** button.
11. Press the **"MENU"** button to return to the **C00: PRO ADJUST** menu.
12. Open the **C-3: PB ADJUST** in the Service Menu.
13. Select the **C44: ERROR MODE** and change the setting from "OFF" to **"SINGLE"**.
14. Check the VIDEO/AUDIO error rate level of the audiometer on the front panel. Make sure that it is below level **"A"** shown in the figure.
15. Select the **C32: IC READ** and change the setting from "OFF" to **"SINGLE"**.
16. Press the **"SET"** button to set the AEQ tap coefficient automatically.
17. Select the **C32: IC READ** and change the setting from "SINGLE" to **"OFF"**. Press the **"SET"** button.
18. Insert the DV alignment tape (VFM3110EDS) and play it back.
19. Open the **D00: DV ADJUST** in the Service Menu.
20. Open the **D-2: RP ADJUST** in the Service Menu.
21. Select the **D44: ERROR MODE** and change the setting from "FAST" to **"SLOW"**.
22. Check the VIDEO/AUDIO error rate level of the audiometer on the front panel. Make sure that it is below level **"A"** shown in the figure.
23. Select the **D32: IC READ** and change the setting from "OFF" to **"SINGLE"**.
24. Press the **"SET"** button to set the AEQ tap coefficient automatically.
25. Select the **D31: IC READ** and change the setting from "SINGLE" to **"OFF"**. Press the **"SET"** button.



For changing the VIDEO/AUDIO error rate display, press the "DIAG" button.

CH1 Light Up : Audio Error Rate Display

CH2 Light Up : Video Error Rate Display

Channel Condition LED is not working when open the RF ADJUST menu in the service menu. (The all three LED (Red, Blue, Green) turns on.)

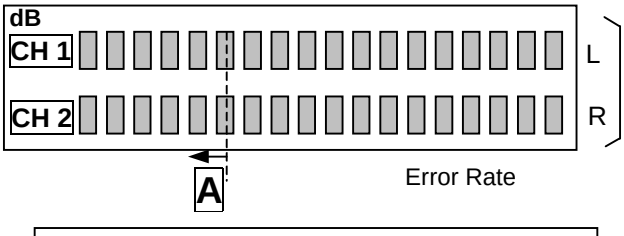
3-6. REC Frequency Characteristic and REC Current Adjustment (DVCPRO 25M)

BOARD	EQ MAIN (H2)
TP	TP6, TP2 (Trigger) Audiometer (Error Rate Display)
ADJ.	Service Menu
TAPE	625(PAL): VFM3680KM (L) Alignment Tape (Colour Bar) DVCPRO Recording tape
INPUT	Colour bar
MODE	PLAY
M. EQ	Spectrum analyzer
SPEC.	-----

1. Set a spectrum analyzer as follows.

Parameter	25M Mode
REF LEVEL	-----
ATTEN	10dB
/DIV	2dB
START FREQ	0MHz
STOP FREQ	40MHz
RES BW	1MHz
VBW	1KHz
SWEEP TIME	150ms
V AVG	OFF
TRIG	EXT

2. Extend the RF/EQ (F8) Board. Connect the spectrum analyzer INPUT to **TP6** and the external trigger to **TP2**.
3. Insert the recording tape and record the colour bar signal.
4. Open the Service Menu.
5. Open the **B00: RF ADJUST**.
6. Open the **C00: PRO ADJUST**.
7. Open the **C-1: REC ADJUST**.
8. Set the numerical value of **C01: REC CURR L** and **C03: REC CURR R** as follows.
   C01: REC CURR L→ +120
   C03: REC CURR R→ -120
9. Read (memorize) the spectrum at the confidence playback into the **TRACE B**, and continue to observe it with the **TRACE A**.
10. Adjust the **C01: REC CURR L** so that the level difference between the **TRACE B** (The spectrum memorized at the confidence playback) and **TRACE A** (The real time spectrum at the confidence playback**)** at **5MHz** portion is in the following specification.
    TRACE B – TRACE A : 1dB +1dB/-0dB.
    (After adjustment, memorize the adjustment value of the C01: REC CURR L.)
11. Adjust the **C02: REC FREQ L** so that the level difference between the **TRACE B** (The spectrum memorized at the confidence playback) and **TRACE A** (The real time spectrum at the confidence playback**)** at **20MHz** portion is in the following specification.
    TRACE B – TRACE A : 0dB +/-1dB.
12. Set the numerical value of **C01: REC CURR L** and **C03: REC CURR R** as follows.
    C01: REC CURR L→ -120
    C03: REC CURR R→ +120
13. Read (memorize) the spectrum at the confidence playback into the **TRACE B**, and continue to observe it with the **TRACE A**.
14. Adjust the **C03: REC CURR R** so that the level difference between the **TRACE B** (The spectrum memorized at the confidence playback) and **TRACE A** (The real time spectrum at the confidence playback**)** at **5MHz** portion is in the following specification.
    TRACE B – TRACE A : 1dB +1dB/-0dB.
    (After adjustment, memorize the adjustment value of the C03: REC CURR R.)
15. Adjust the **C04: REC FREQ R** so that the level difference between the **TRACE B** (The spectrum memorized at the confidence playback) and **TRACE A** (The real time spectrum at the confidence playback**)** at **20MHz** portion is in the following specification.
    TRACE B – TRACE A : 0dB +/-1dB.
16. For the **C01: REC CURR L** value and the **C03: REC CURR R** value that have been pre-adjusted in the steps 10 and 14, add +50 to them respectively for readjustment (fine adjustment).
17. Insert the recording tape and record the colour bar signal approximately one minute and play it back.
18. Check that the error rate is less than **"A"** level of the figure. (When confirm the error rate, select **C44: ERROR MODE** and change the setting from **"FAST"** to **"SLOW"**.)
    Read (memorize) the playback spectrum into the **TRACE B**.
19. Insert the DVCPRO alignment tape (VFM3680KM (L)) and play it back.
20. Confirm that the level difference between the **TRACE B** (Memorized self-recording playback spectrum) and **TRACE A** (Alignment tape playback spectrum) at **5 MHz** is in the following specification.
    TRACE B – TRACE A : 0 dB +/- 2dB.



For changing the VIDEO/AUDIO error rate display, press the "DIAG" button.

CH1 Light Up : Audio Error Rate Display

CH2 Light Up : Video Error Rate Display

Channel Condition LED is not working when open the RF ADJUST menu in the service menu. (The all three LED (Red, Blue, Green) turns on.)

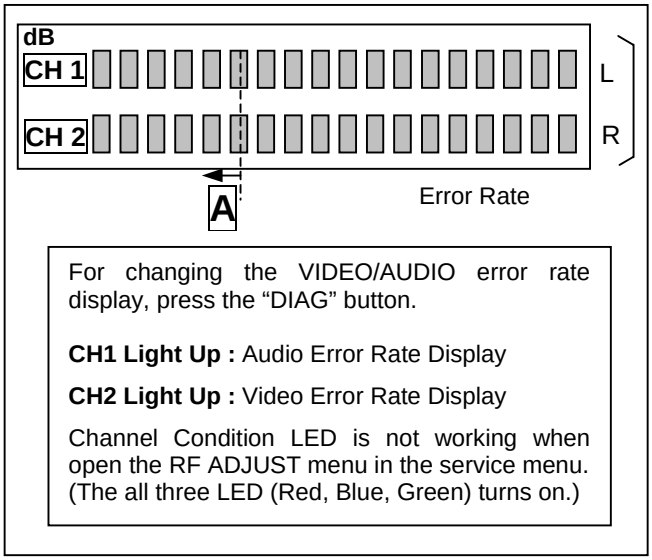
3-7. REC Frequency Characteristic and REC Current Adjustment (DV)

BOARD	EQ MAIN (H2)
TP	TP6, TP2 (Trigger) Audiometer (Error Rate Display)
ADJ.	Service Menu
TAPE	625(PAL): VFM3110EDS Alignment Tape (Colour Bar) DV Recording tape
INPUT	Colour bar
MODE	PLAY
M. EQ	Spectrum analyzer
SPEC.	-----

1. Set a spectrum analyzer as follows.

Parameter	25M Mode
REF LEVEL	-----
ATTEN	10dB
/DIV	2dB
START FREQ	0MHz
STOP FREQ	40MHz
RES BW	1MHz
VBW	1KHz
SWEEP TIME	150ms
V AVG	OFF
TRIG	EXT

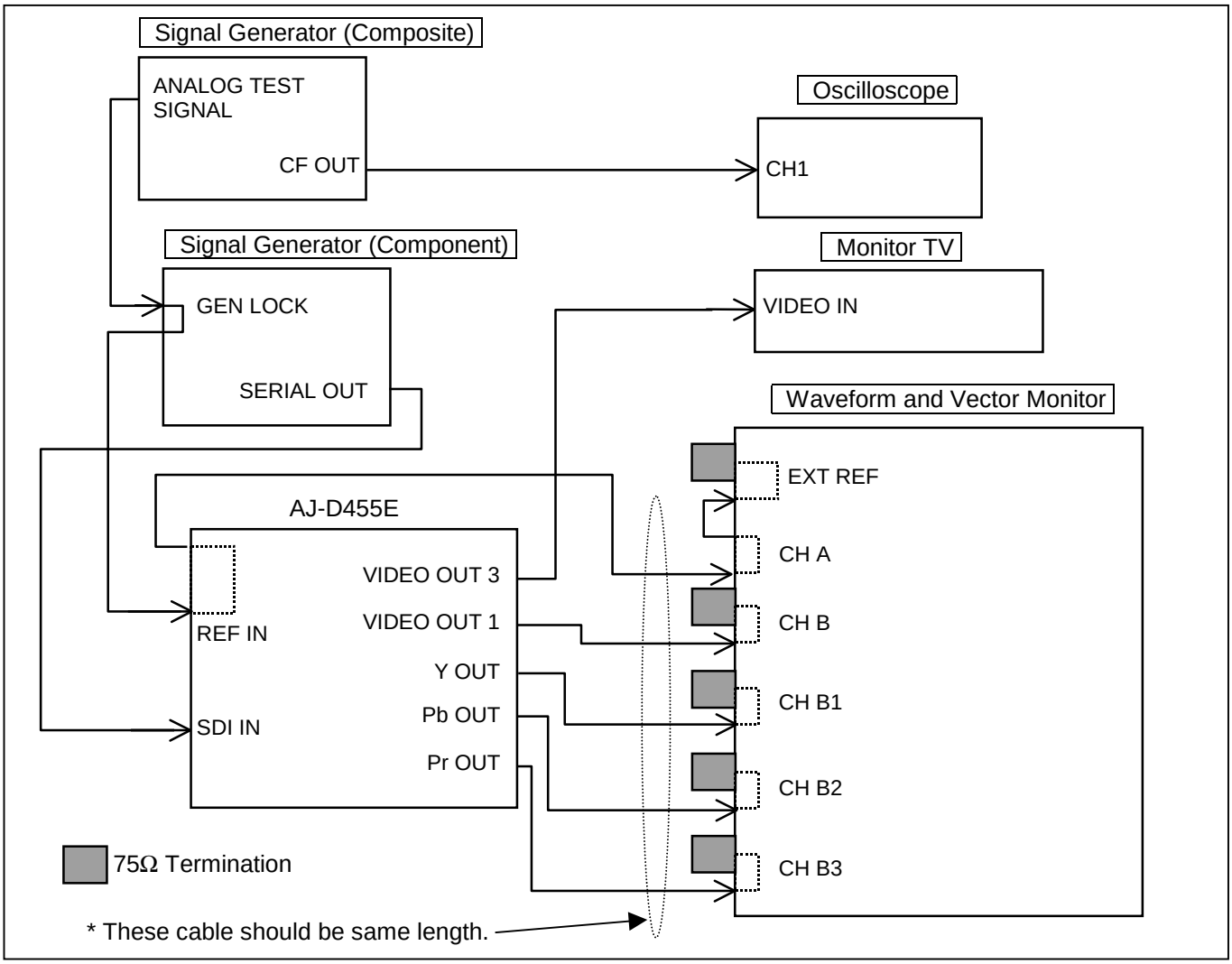
2. Extend the RF/EQ (F8) Board. Connect the spectrum analyzer INPUT to **TP6** and the external trigger to **TP2**.
3. Insert the DV recording tape and record the colour bar signal.
4. Open the Service menu.
5. Open the **B00; RF ADJUST**.
6. Open the **D00: DV ADJUST**.
7. Open the **D-1: REC ADJUST**.
8. For the **C02: REC FREQ L** value and the **C04: REC FREQ R** value that have been adjusted in the steps of "3-6. REC Frequency Characteristic and REC Current Adjustment (DVCPRO 25M)", add **+40** to them respectively for setting to the **D02: REC FREQ L** and the **D04: REC FREQ R**. (If the value exceeds +127 after addition, set to +120.)
9. Set the **D01: REC CURR L** and **D03: REC CURR R** to +20.
10. Insert the DV recording tape and record the colour bar signal approximately one minute and play it back.
11. Check that the error rate is less than **"A"** level of the figure. (When confirm the error rate, select **D44: ERROR MODE** and change the setting from **"FAST"** to **"SLOW"**.)
    Read (memorize) the playback spectrum into the **TRACE B**.
12. Insert the DV alignment tape (VFM3110EDS) and play it back.
13. Confirm that the level difference between the **TRACE B** (Memorized self-recording playback spectrum) and **TRACE A** (Alignment tape playback spectrum) at **5 MHz** is in the following specification.
    TRACE B – TRACE A : 0 dB +/- 2dB.



4. V OUT (F2)

4-1. Connection
4-2. Reference PLL Center Frequency Adjustment
4-3. Reference CF Detection Adjustment
4-4. Composite Sync DC Level Adjustment
4-5. Composite Y Level Adjustment
4-6. Composite YC Timing Adjustment
4-7. Composite C Gain Adjustment
4-8. System Sub-Carrier Phase Adjustment
4-9. Component Sync DC Adjustment
4-10. Component Y Level Adjustment
4-11. Component Pb Level Adjustment
4-12. Component Pr Level Adjustment
4-13. Component Y-Pb Timing Adjustment
4-14. Component Y-Pr Timing Adjustment

4-1. Connection



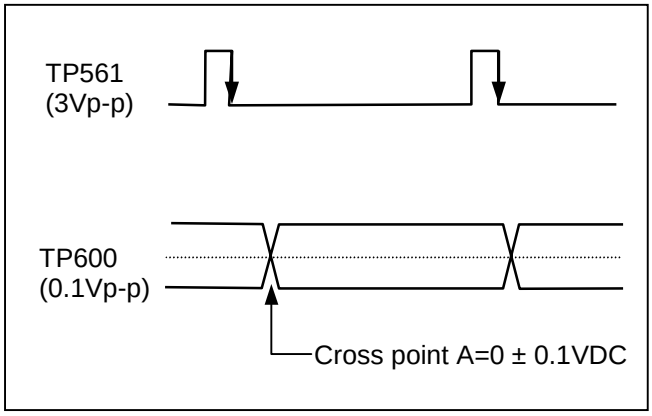
4-2. Reference PLL Center Frequency Adjustment

BOARD	V OUT (F2)
TP	TP600 (VCO) TP561 (Trigger)
ADJ.	VC600 (FREQ ADJ)
TAPE	-----
INPUT	REF VIDEO IN Analog Composite Signal (100% Color Bar)
MODE	-----
M. EQ	Oscilloscope
SPEC.	DC Level: 0 ± 0.1VDC

1. Adjust VC600 so that the DC voltage of cross point A at TP600 is in the specification.

<Note>

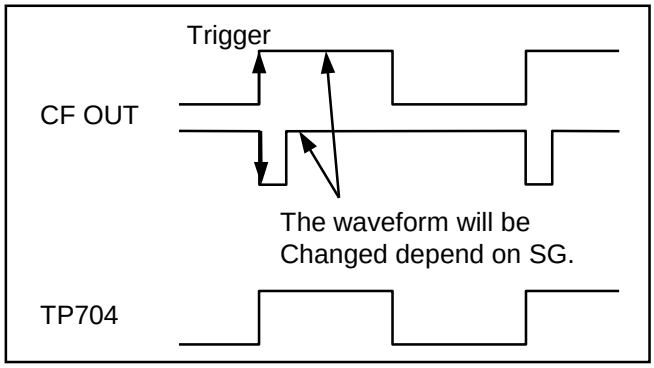
When the hand and so on approach too much near VC600 in adjustment, the DC voltage sometimes shifts.



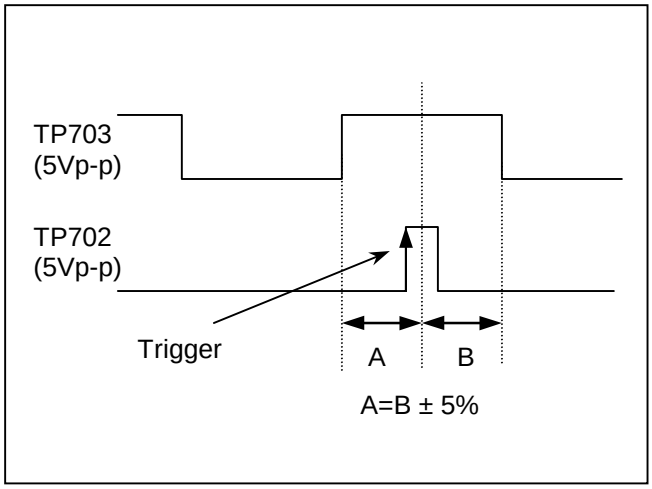
4-3. Reference CF Detection Adjustment

BOARD	V OUT (F2)
TP	Composite Signal CF OUT, TP704 (CF) TP702 (CF_TP2), TP703 (CF_TP1)
ADJ.	VR560 (SCH DET)
TAPE	-----
INPUT	REF VIDEO IN Analog Composite Signal (100% Color Bar)
MODE	-----
M. EQ	Oscilloscope
SPEC.	See Figure, A=B ± 5%

1. Connect the oscilloscope CH1 to the CF output of composite signal generator and CH2 to TP704.
2. Adjust VR560 so that the phase is synchronized between CF pulses and TP704 as shown in figure.
   And confirm that the “SCH_ON (C-1)” LED on the board is turned on.



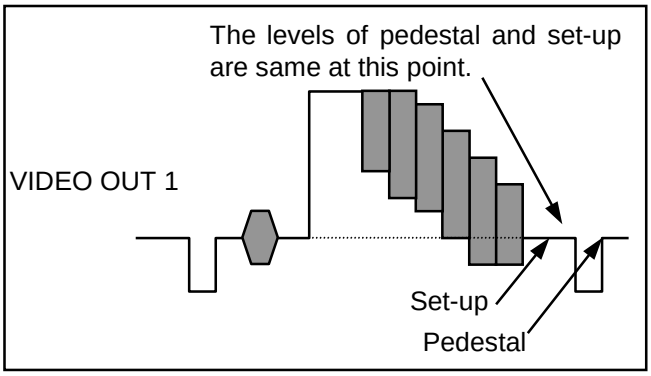
3. Connect the oscilloscope CH1 to TP702 and CH2 to TP703.
4. Expand (delay) the rising edge of TP702.
5. Slowly and slightly rotate VR560 so that the center of high portion at TP702 is positioned at the center of high portion at TP703.



4-4. Composite Sync DC Level Adjustment

BOARD	V OUT (F2)
TP	VIDEO OUT 1 (CH B)
ADJ.	VR452 (ENC SYNC DC)
TAPE	625(PAL): VFM3680KM (L) Alignment Tape (Color Bar)
INPUT	------
MODE	PLAY
M. EQ	Analog WFM
SPEC.	SET-UP LEVEL = PEDESTAL LEVEL ± 3mV

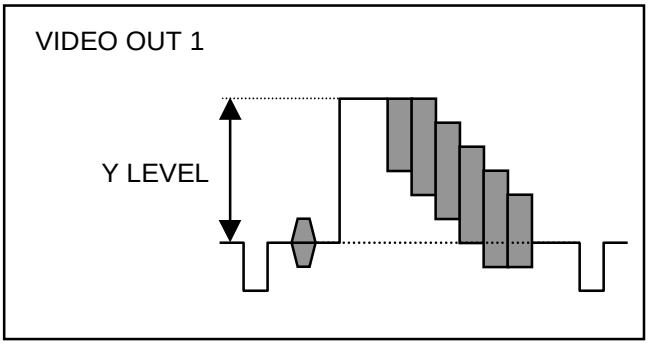
1. Play back the alignment tape at the color bar portion.
2. Adjust VR452 so that the set-up level is the same level as the pedestal level.



4-5. Composite Y Level Adjustment

BOARD	V OUT (F2)
TP	VIDEO OUT 1 (CH B)
ADJ.	VR453 (ENC Y LEV)
TAPE	625(PAL): VFM3680KM (L) Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM
SPEC.	Y Level = 700 ± 3mV

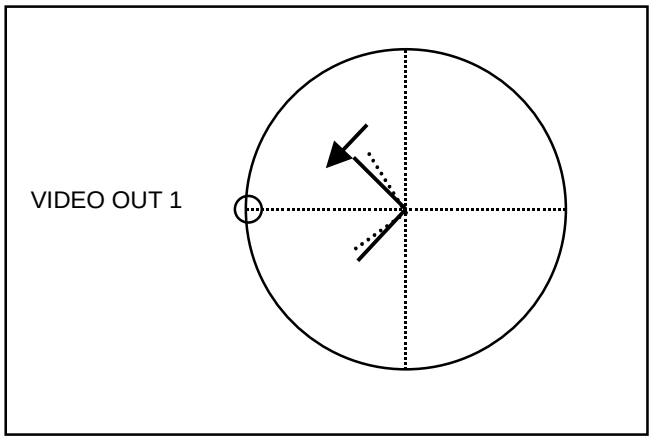
1. Play back the alignment tape at the color bar portion.
2. Adjust VR453 so that the Y level is in the specification.



4-6. Composite YC Timing Adjustment

BOARD	V OUT (F2)
TP	VIDEO OUT 1 (CH B)
ADJ.	VR456 (ENC C DL)
TAPE	625(PAL): VFM3680KM (L) Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM with SCH meter
SPEC.	SCH = 0 ± 1°

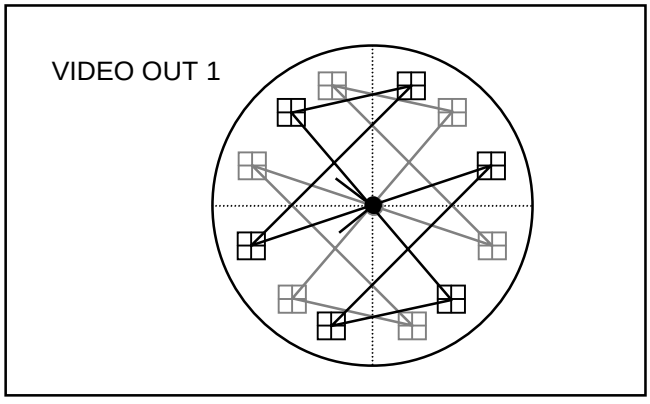
1. Adjust VR456 so that the SCH of VIDEO OUT 1 signal is in the specification.



4-7. Composite C Gain Adjustment

BOARD	V OUT (F2)
TP	VIDEO OUT 1
ADJ.	VR455 (ENC C LEV)
TAPE	625(PAL): VFM3680KM (L) Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	Vector Scope
SPEC.	All vector dots are in the inner box.

1. Set the burst position on the vector scope at correct position.
2. Adjust VR455 so that the all vector dots are in the inner box as shown in figure.



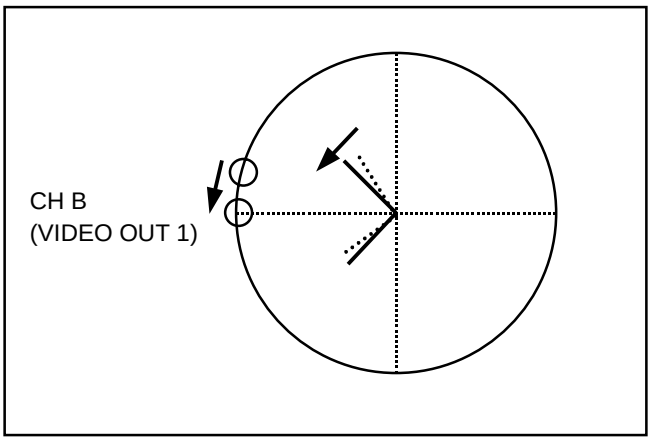
4-8. System Sub-Carrier Phase Adjustment

BOARD	V OUT (F2)
TP	REF IN (CH A), VIDEO OUT 1 (CH B)
ADJ.	VR600 (SYS SC)
TAPE	625(PAL): VFM3680KM (L) Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM with SCH meter
SPEC.	SCH = 0 ± 1°

1. Adjust VR600 so that the SCH of the VIDEO OUT 1 (CHB) is same as EXT-REF-IN (CHA).

<Note>

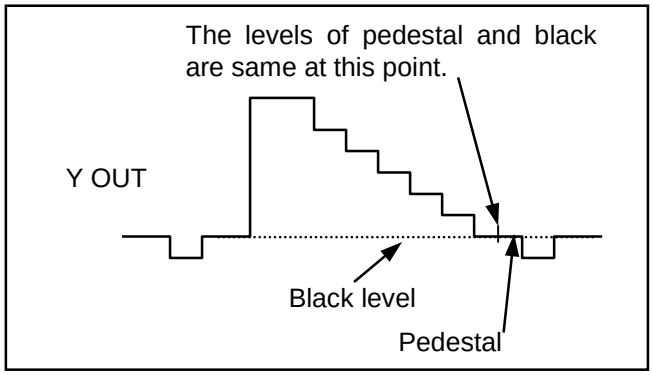
1. Confirm that the SCH indicator should be turned on when reference signal is inputted.
2. Set the WFM to SCH mode, and set the EXT reference mode.
   Observe the Reference signal (CHA) and adjust the PHASE VR of the WFM so that the SCH is correct portion before adjusting the VR600 as shown in figure.



4-9. Component Sync DC Adjustment

BOARD	V OUT (F2)
TP	Y OUT (CH B1)
ADJ.	VR301 (SYNC DC)
TAPE	625(PAL): VFM3680KM (L) Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM
SPEC.	SET-UP LEVEL = PEDESTAL LEVEL ± 3mV

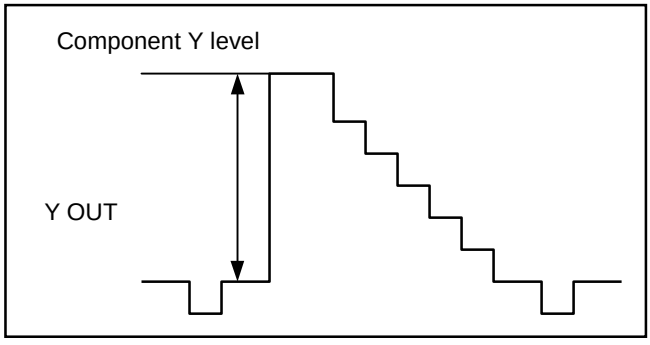
1. Play back the alignment tape at the color bar portion.
2. Adjust VR301 so that the black level is the same level as the pedestal level.



4-10. Component Y Level Adjustment

BOARD	V OUT (F2)
TP	Y OUT (CH B1)
ADJ.	VR402 (Y LEV)
TAPE	625(PAL): VFM3680KM (L) Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM
SPEC.	Y level: 700 ± 3mV

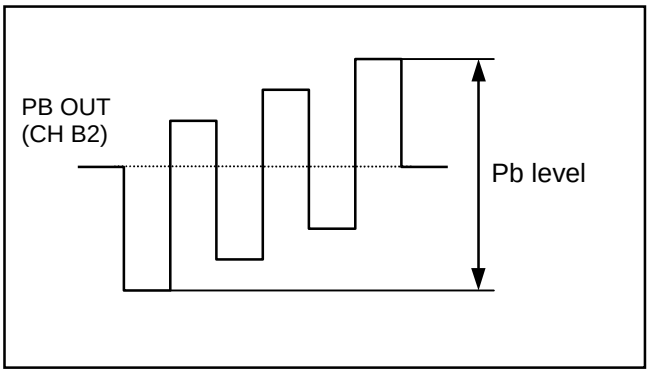
1. Play back the alignment tape at the color bar portion.
2. Adjust VR402 so that the Y level is in the specification.



4-11. Component Pb Level Adjustment

BOARD	V OUT (F2)
TP	Pb OUT (CH B2)
ADJ.	VR400 (PB LEV)
TAPE	625(PAL): VFM3680KM (L) Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM
SPEC.	Pb level : 700 ± 3mV

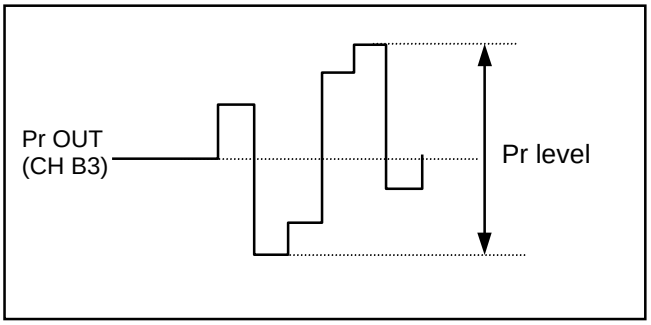
1. Play back the alignment tape at the color bar portion.
2. Adjust VR400 so that the Pb level is in the specification.



4-12. Component Pr Level Adjustment

BOARD	V OUT (F2)
TP	Pr OUT (CH B3)
ADJ.	VR401 (Pr LEV)
TAPE	625(PAL): VFM3680KM (L) Alignment Tape (Color Bar)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM
SPEC.	Pr level : 700 ± 3mV

1. Play back the alignment tape at the color bar portion.
2. Adjust VR401 so that the Pr level is in the specification.



4-13. Component Y-Pb Timing Adjustment

BOARD	V OUT (F2)
TP	Y OUT (CH B1), Pb OUT (CH B2)
ADJ.	VR302 (Pb DL)
TAPE	625(PAL): VFM3680KM (L) Alignment Tape (Bowtie portion)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM (Bowtie mode)
SPEC.	Y Pb Timing : 0 ± 5nsec

1. Adjust VR302 so that the crossing point of the Bowtie signal becomes a center (Timing=0± 5nsec) as shown in figure 4-14.

<Note>

Incase of WFM does not have “Bowtie mode” (Y-Pb timing adjustment mode), if the oscilloscope has “ADD” and “INVERT” switch, it is possible to make the following waveform by those switch.

4-14. Component Y-Pr Timing Adjustment

BOARD	V OUT (F2)
TP	Y OUT (CH B1), Pr OUT (CH B3)
ADJ.	VR303 (Pr DL)
TAPE	625(PAL): VFM3680KM (L) Alignment Tape (Bowtie portion)
INPUT	-----
MODE	PLAY
M. EQ	Analog WFM (Bowtie mode)
SPEC.	Y Pr Timing : 0 ± 5nsec

1. Adjust VR302 so that the crossing point of the Bowtie signal becomes a center (Timing=0± 5nsec) as shown in figure 4-14.

<Note>

Incase of WFM does not have “Bowtie mode” (Y-Pb timing adjustment mode), if the oscilloscope has “ADD” and “INVERT” switch, it is possible to make the following waveform by those switch.

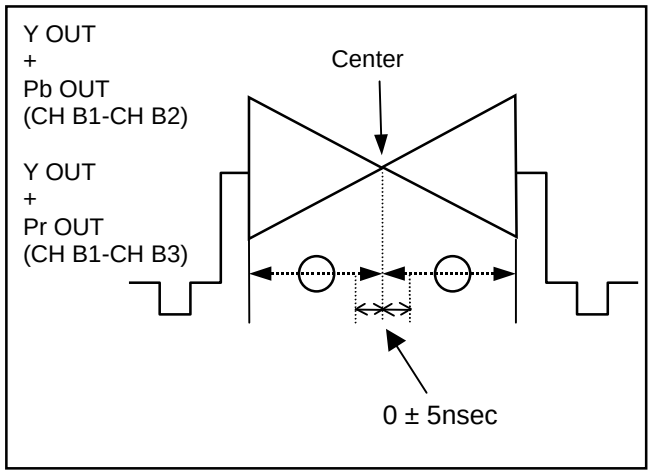
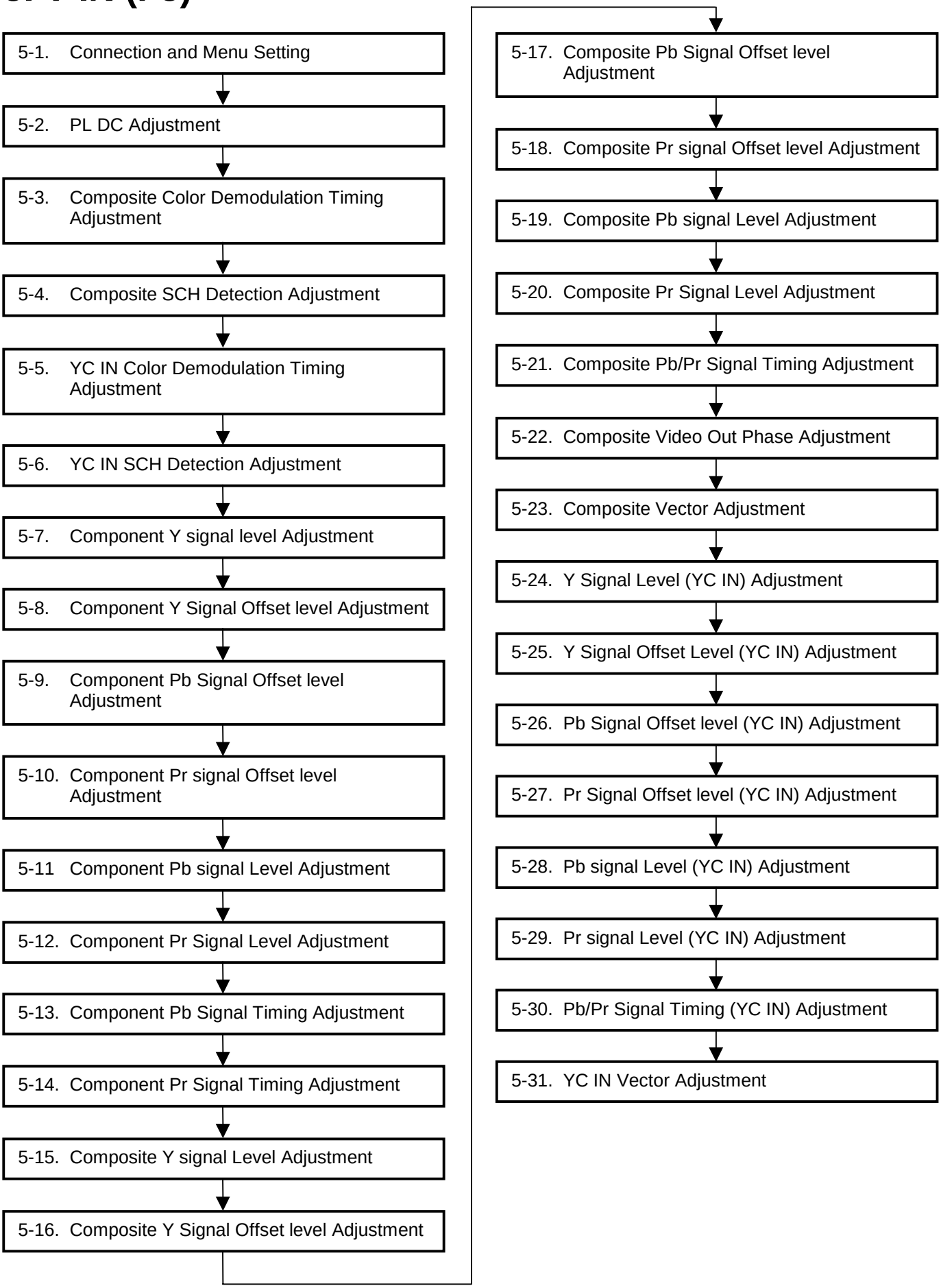
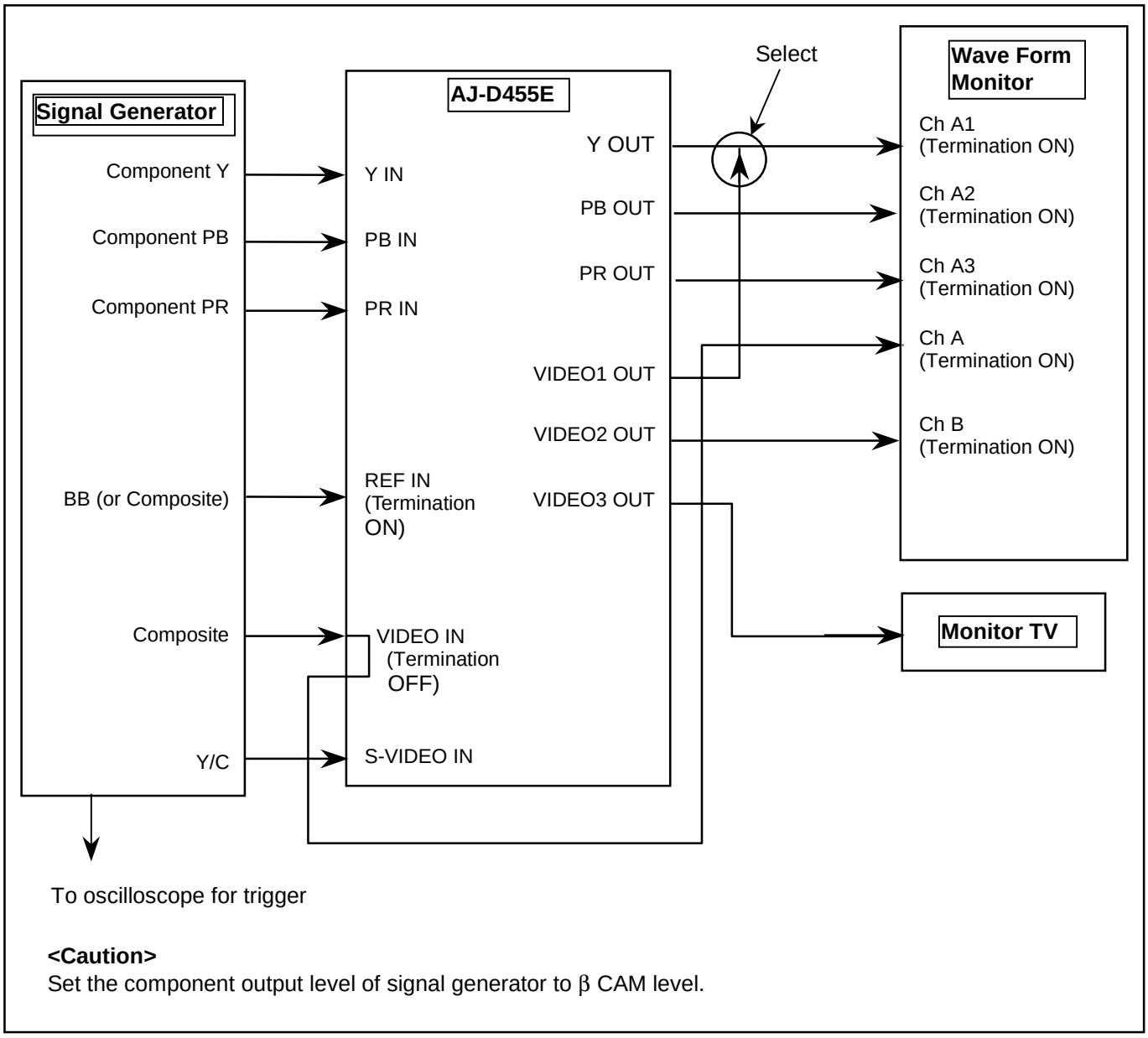


Fig. 4-14

5. V IN (F5)


5-1. Connection and Menu Setting
5-2. PL DC Adjustment
5-3. Composite Color Demodulation Timing Adjustment
5-4. Composite SCH Detection Adjustment
5-5. YC IN Color Demodulation Timing Adjustment
5-6. YC IN SCH Detection Adjustment
5-7. Component Y signal level Adjustment
5-8. Component Y Signal Offset level Adjustment
5-9. Component Pb Signal Offset level Adjustment
5-10. Component Pr signal Offset level Adjustment
5-11 Component Pb signal Level Adjustment
5-12. Component Pr Signal Level Adjustment
5-13. Component Pb Signal Timing Adjustment
5-14. Component Pr Signal Timing Adjustment
5-15. Composite Y signal Level Adjustment
5-16. Composite Y Signal Offset level Adjustment
5-17. Composite Pb Signal Offset level Adjustment
5-18. Composite Pr signal Offset level Adjustment
5-19. Composite Pb signal Level Adjustment
5-20. Composite Pr Signal Level Adjustment
5-21. Composite Pb/Pr Signal Timing Adjustment
5-22. Composite Video Out Phase Adjustment
5-23. Composite Vector Adjustment
5-24. Y Signal Level (YC IN) Adjustment
5-25. Y Signal Offset Level (YC IN) Adjustment
5-26. Pb Signal Offset level (YC IN) Adjustment
5-27. Pr Signal Offset level (YC IN) Adjustment
5-28. Pb signal Level (YC IN) Adjustment
5-29. Pr signal Level (YC IN) Adjustment
5-30. Pb/Pr Signal Timing (YC IN) Adjustment
5-31. YC IN Vector Adjustment

5-1. Connection and Menu Setting



<Caution>
Set the component output level of signal generator to β CAM level.

5-2. PLL DC Adjustment

BOARD	V IN (F5)
TP	TP552 (PLL DC)
ADJ.	VC500 (VCO DC)
TAPE	-----
INPUT	Analog Component Signal (100% Color Bar)
MODE	EE
M. EQ	Oscilloscope
SPEC.	DC voltage : 0 ± 0.1V

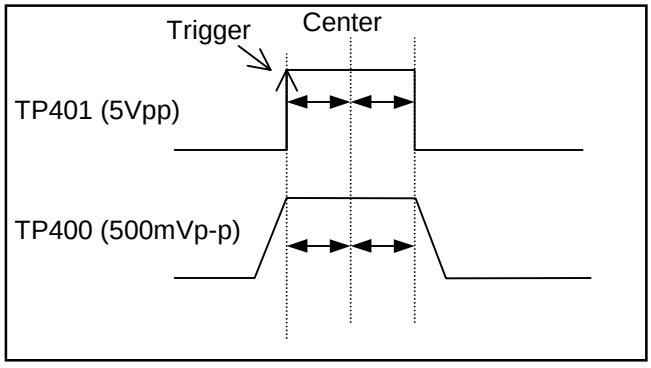
1. Connect the scope to TP552. And adjust VC500 so that the DC voltage is in the specification.

5-3. Composite Color Demodulation Timing Adjustment

BOARD	V IN (F5)
TP	TP400, TP401
ADJ.	VR401 (RSTH SITE), Service Menu
TAPE	-----
INPUT	Analog Composite Signal (100% Color Bar)
MODE	EE
M. EQ	Oscilloscope
SPEC.	Center

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-2 CMPST ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Set the numerical value of the **E08 SITE CAXIS** to 127.
5. Connect the scope CH1 to TP401 and CH2 to TP400.
6. Adjust VR401 so that the timing of the center portion of these pulses becomes same timing.
7. Set the **E08 SITE CAXIS** to –27.
8. Close the menu.

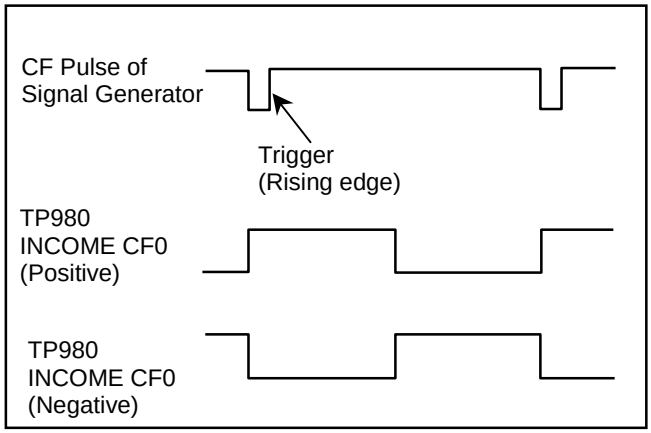
<Note>
After this adjustment, 5-23.Composite Vector Adjustment should be performed.



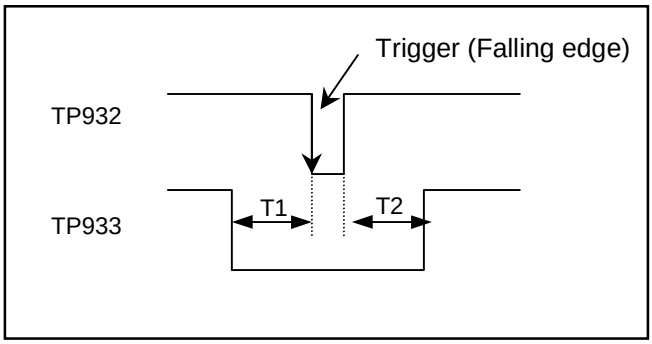
5-4. Composite SCH Detection Adjustment

BOARD	V IN (F5)
TP	TP980 (INCF), TP932, TP933
ADJ.	VR402 (SCH SITE)
TAPE	-----
INPUT	CF Signal Analog Composite Signal (100% Color Bar)
MODE	EE
M. EQ	Oscilloscope
SPEC.	T1=T2 ± 0.5msec

1. Connect the scope CH1 to TP980 and CH2 to CF Pulse of the signal generator. And set the trigger channel to CH2. (Triggered by rising edge.)
2. Set VR402 fully counterclockwise.
3. If income CF0 pulse of the TP980 is positive pulse, turn the VR402 clockwise until changing from positive to negative as shown bellow.
4. Turn the VR402 clockwise slowly until just changing from negative to positive as shown below.



5. Connect the scope CH1 to TP932 and CH2 to TP933.
6. Adjust VR402 so that the low portion of TP932 is positioned at the center of low portion at TP933. (T1=T2 ± 0.5msec)

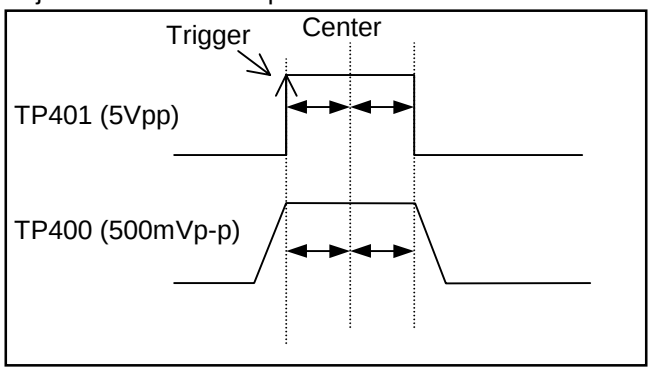


5-5. YC IN Color Demodulation Timing Adjustment

BOARD	V IN (F5)
TP	TP400, TP401
ADJ.	VR403 (RSTH YC), Service Menu
TAPE	-----
INPUT	Analog YC Signal (100% Color Bar)
MODE	EE
M. EQ	Oscilloscope
SPEC.	Center

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-3 YC ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Set the numerical value of the **E08 YC CAXIS** to 127.
5. Connect the scope CH1 to TP401 and CH2 to TP400.
6. Adjust VR403 so that the timing of the center portion of these pulses becomes same timing.
7. Set the **E08 SITE CAXIS** to –27.
8. Close the menu.

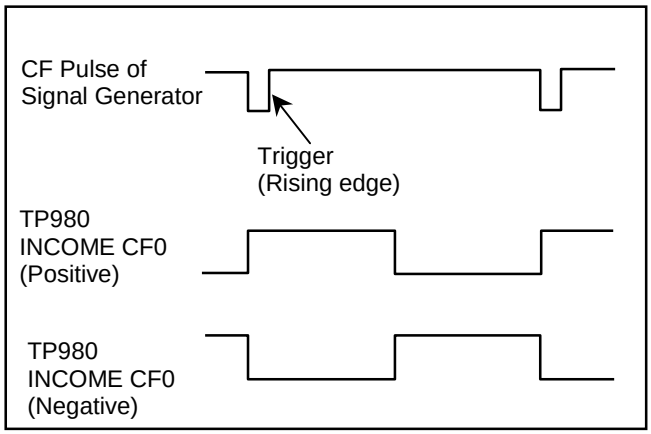
<Note>
After this adjustment, 5-23. Composite Vector Adjustment should be performed.



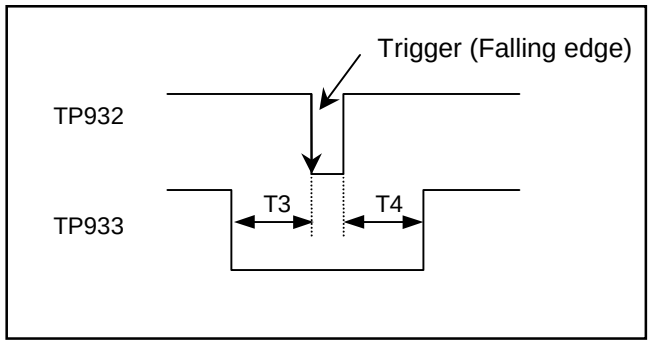
5-6. YC IN SCH Detection Adjustment

BOARD	V IN (F5)
TP	TP980 (INCF), TP932, TP933
ADJ.	VR404 (SCH YC)
TAPE	-----
INPUT	CF Signal Analog Composite Signal (100% Color Bar)
MODE	EE
M. EQ	Oscilloscope
SPEC.	T3=T4 ± 0.5msec

1. Connect the scope CH1 to TP980 and CH2 to CF Pulse of the signal generator. And set the trigger channel to CH2. (Triggered by rising edge.)
2. Set VR404 fully counterclockwise.
3. If income CF0 pulse of the TP980 is positive pulse, turn the VR404 clockwise until changing from positive to negative as shown bellow.
4. Turn the VR404 clockwise slowly until just changing from negative to positive as shown below.



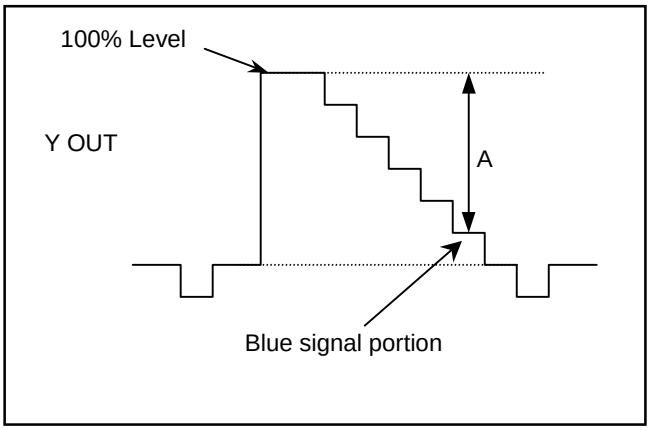
5. Connect the scope CH1 to TP932 and CH2 to TP933.
6. Adjust VR404 so that the low portion of TP932 is positioned at the center of low portion at TP933. (T1=T2 ± 0.5msec)



5-7. Component Y signal level Adjustment

BOARD	V IN (F5)
TP	Component Y OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Component Signal (100% Color Bar)
MODE	EE
M. EQ	Analog WFM
SPEC.	Y signal(100%←→Blue) : 620 ± 3mV

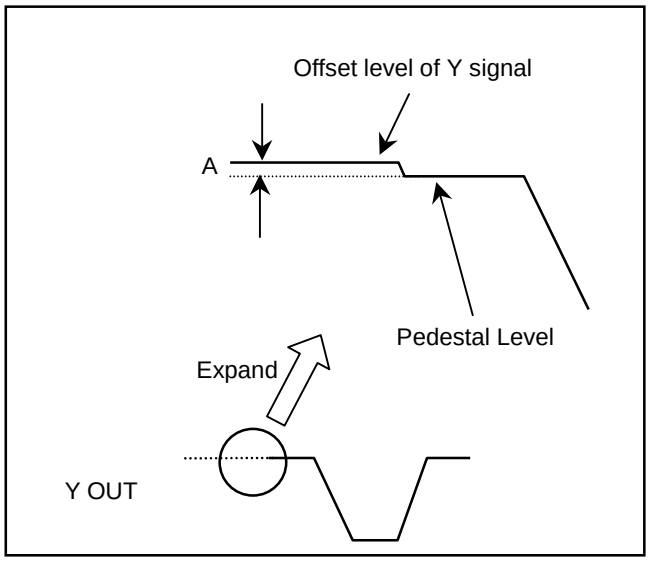
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-1 CMPNT ADJUST** and press the "SET" button to open the CMPNT ADJUST menu.
4. Adjust the **E00 NENT Y GAIN** so that the level "A" is in the specification. (Level "A" is between 100% portion and blue signal portion.)
5. Close the menu.



5-8. Component Y Signal Offset level Adjustment

BOARD	V IN (F5)
TP	Component Y OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Component Signal (100% Color Bar)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pedestal level and the offset level of Y signal: 0 ± 3mV

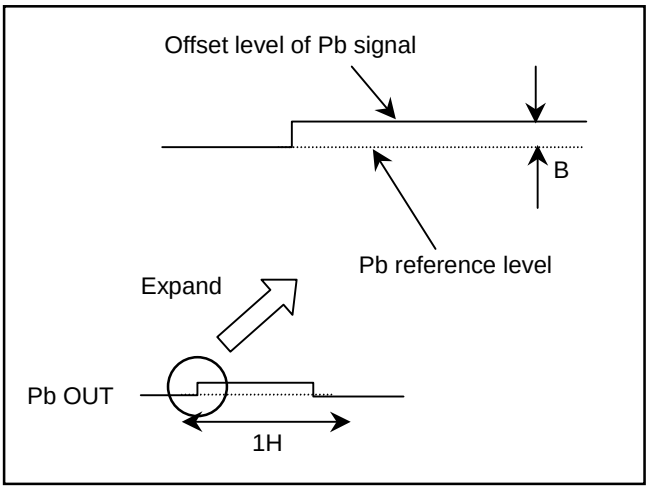
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-1 CMPNT ADJUST** and press the "SET" button to open the CMPNT ADJUST menu.
4. Adjust the **E01 NENT Y OFS** so that the level "A" is in the specification. (Level "A" is the difference between the pedestal level and offset level of Y signal.)
5. Close the menu.



5-9. Component Pb Signal Offset level Adjustment

BOARD	V IN (F5)
TP	Component PB OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Component Signal (0% Flat Field)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pb reference level and the offset level of the Pb signal. (B) : 0 ± 3mV

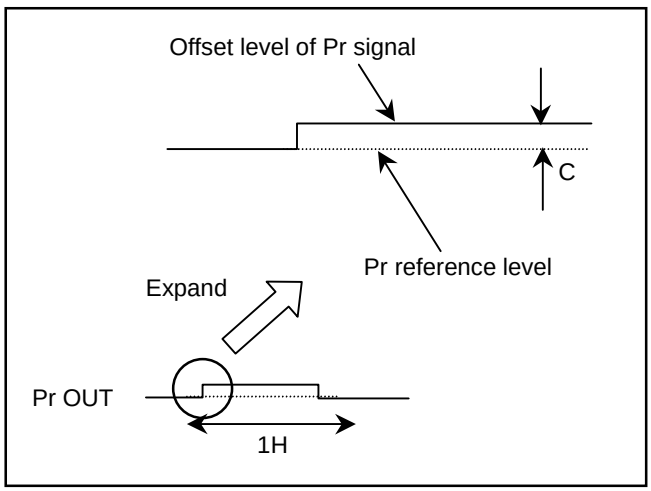
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-1 CMPNT ADJUST** and press the "SET" button to open the CMPNT ADJUST menu.
4. Adjust the **E03 NENT PB OFS** so that the level "B" is in the specification. (Level "B" is the difference between the Pb reference level and the offset level of the Pb signal.)
5. Close the menu.



5-10.Component Pr signal Offset level Adjustment

BOARD	V IN (F5)
TP	Component PR OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Component Signal (0% Flat Field)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pr reference level and the offset level of the Pr signal. (C) : 0 ± 3mV

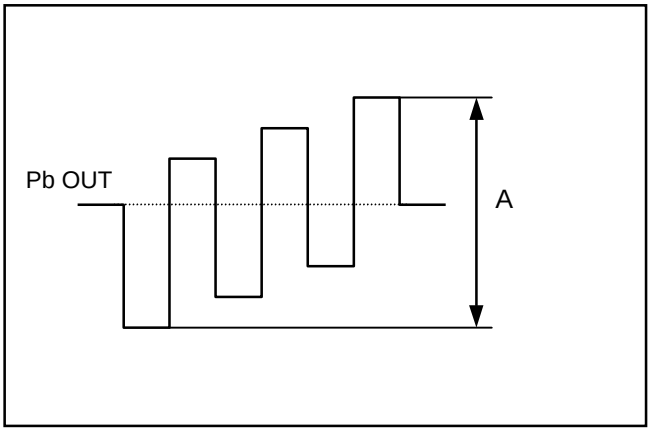
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-1 CMPNT ADJUST** and press the "SET" button to open the CMPNT ADJUST menu.
4. Adjust the **E06 NENT PR OFS** so that the level "C" is in the specification. (Level "C" is the difference between the Pr reference level and the offset level of the Pr signal.)
5. Close the menu.



5-11 Component Pb signal Level Adjustment

BOARD	V IN (F5)
TP	Component PB OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Component Signal (100% Color Bar)
MODE	EE
M. EQ	Analog WFM
SPEC.	Pb signal level (A): 700 ± 3mV

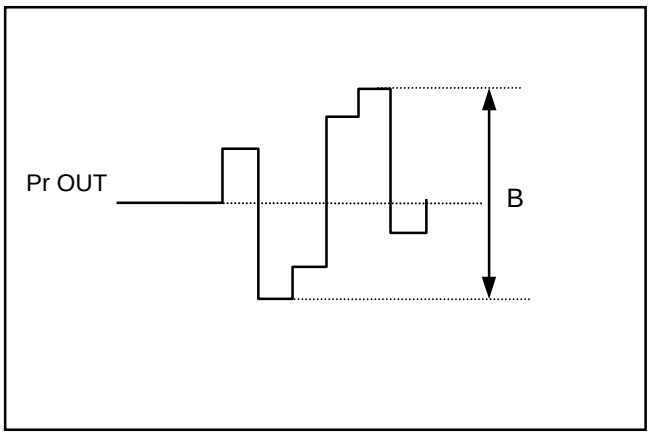
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-1 CMPNT ADJUST** and press the "SET" button to open the CMPNT ADJUST menu.
4. Adjust the **E02 NENT PB GAIN** so that the level "A" is in the specification.
5. Close the menu.



5-12.Component Pr Signal Level Adjustment

BOARD	V IN (F5)
TP	Component PR OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Component Signal (100% Color Bar)
MODE	EE
M. EQ	Analog WFM
SPEC.	Pr signal level (B): 700 ± 3mV

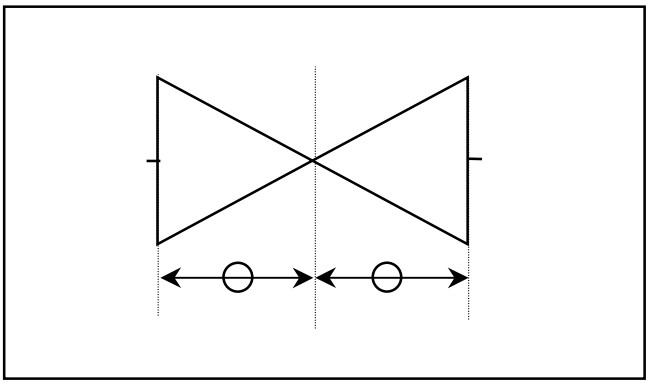
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-1 CMPNT ADJUST** and press the "SET" button to open the CMPNT ADJUST menu.
4. Adjust the **E05 NENT PR GAIN** so that the level "B" is in the specification.
5. Close the menu.



5-13.Component Pb Signal Timing Adjustment

BOARD	V IN (F5)
TP	Component Pb OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Component Signal (Bowtie)
MODE	EE
M. EQ	Analog WFM (Bowtie mode)
SPEC.	Relative Timing: 0 ± 5nsec

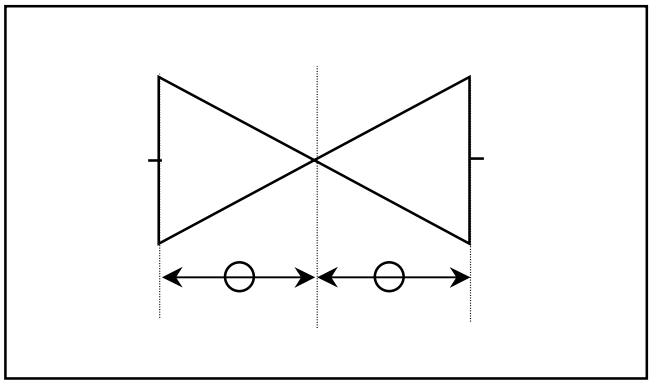
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-1 CMPNT ADJUST** and press the "SET" button to open the CMPNT ADJUST menu.
4. Adjust the **E04 NENT PB TMG** so that the crossing point of the Bowtie signal becomes a center (Timing = 0 ± 5nsec).
5. Close the menu.



5-14.Component Pr Signal Timing Adjustment

BOARD	V IN (F5)
TP	Component Pr OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Component Signal (Bowtie) βCAM Level
MODE	EE
M. EQ	Analog WFM (Bowtie mode)
SPEC.	Relative Timing: 0 ± 5nsec

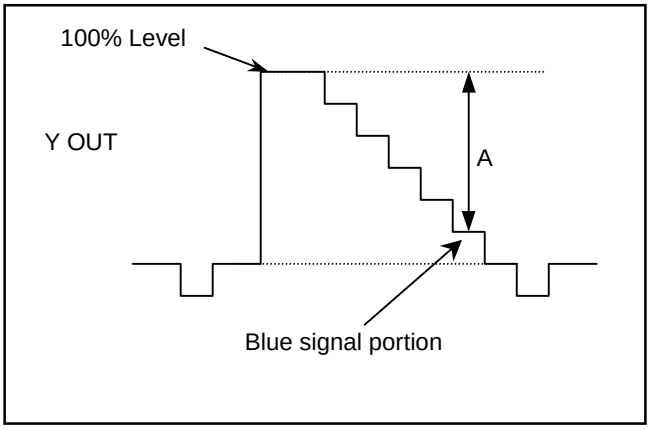
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-1 CMPNT ADJUST** and press the "SET" button to open the CMPNT ADJUST menu.
4. Adjust the **E07 NENT PR TMG** so that the crossing point of the Bowtie signal becomes a center (Timing = 0 ± 5nsec).
5. Close the menu.



5-15.Composite Y signal Level Adjustment

BOARD	V IN (F5)
TP	Component Y OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Composite Signal (100% Color Bar)
MODE	EE
M. EQ	Analog WFM
SPEC.	Y signal (A)(100%←→Blue) : 620 ± 3mV

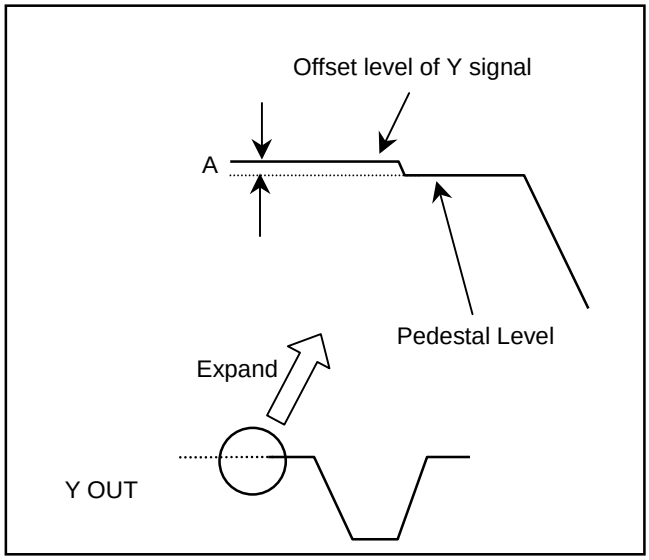
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-2 CMPST ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Adjust the **E00 SITE Y GAIN** so that the level "A" is in the specification. (Level "A" is between 100% portion and Blue signal portion.)
5. Close the menu.



5-16.Composite Y Signal Offset level Adjustment

BOARD	V IN (F5)
TP	Component Y OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Composite Signal (100% Colour Bar)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pedestal level and the offset level of Y signal (A) : 0 ± 3mV

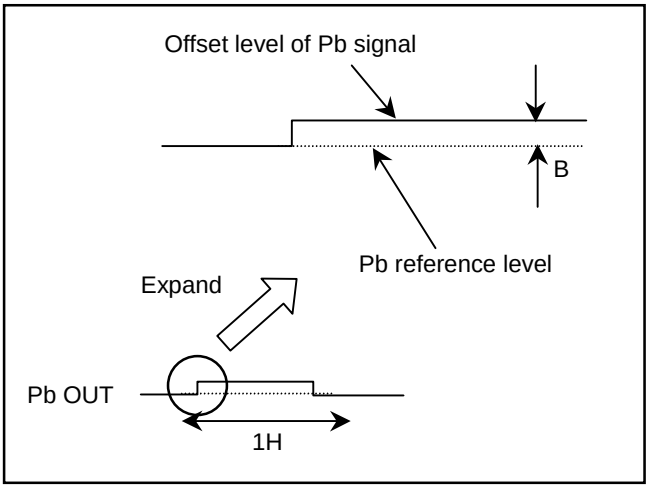
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-2 CMPST ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Adjust the **E01 SITE Y OFS** so that the level "A" is in the specification. (Level "A" is the difference between the pedestal level and offset level of Y signal.)
5. Close the menu.



5-17.Composite Pb Signal Offset level Adjustment

BOARD	V IN (F5)
TP	Component Pb OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Composite Signal (0% Flat Field)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pb reference level and the offset level of the Pb signal. (B) : 0± 3mV

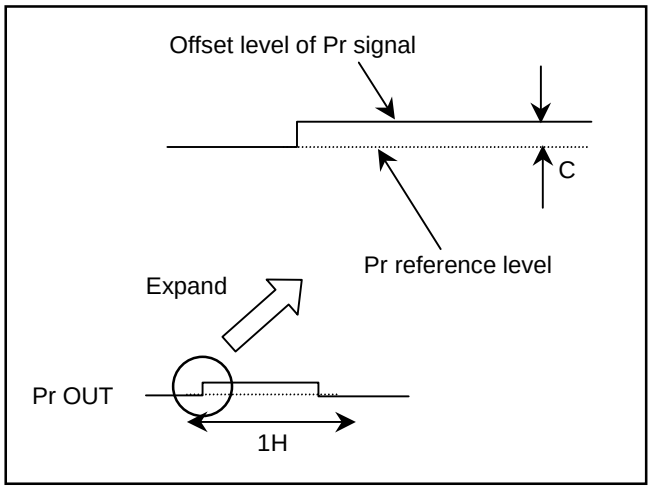
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-2 CMPST ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Adjust the **E03 SITE PB OFS** so that the level "B" is in the specification. (Level "B" is the difference between the Pb reference level and the offset level of the Pb signal.)
5. Close the menu.



5-18.Composite Pr signal Offset level Adjustment

BOARD	V IN (F5)
TP	Component Pr OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Composite Signal (0% Flat Field)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pr reference level and the offset level of the Pr signal. (C) : 0± 3mV

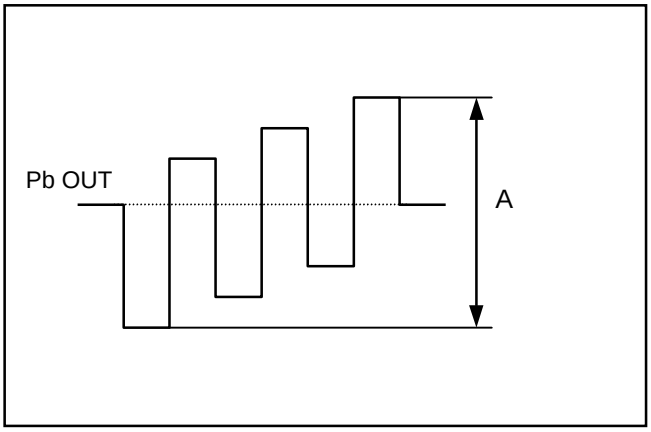
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-2 CMPST ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Adjust the **E06 SITE PR OFS** so that the level "C" is in the specification. (Level "C" is the difference between the Pr reference level and the offset level of the Pr signal.)
5. Close the menu.



5-19.Composite Pb signal Level Adjustment

BOARD	V IN (F5)
TP	Composite PB OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Composite Signal (100% Colour Bar)
MODE	EE
M. EQ	Analog WFM
SPEC.	Pb signal level (A): 700± 3mV

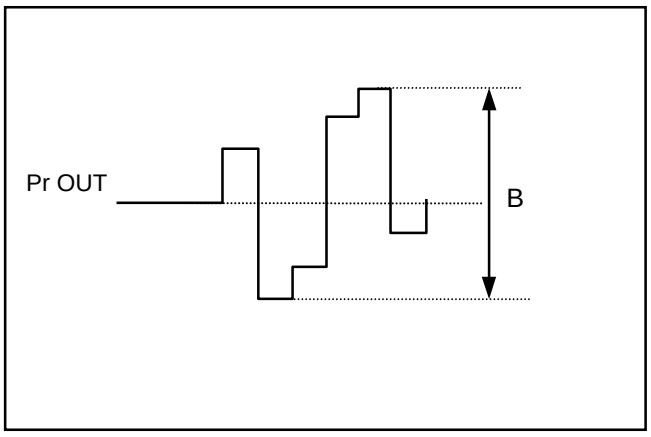
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-2 CMPST ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Adjust the **E02 SITE PB GAIN** so that the level "A" is in the specification.
5. Close the menu.



5-20.Composite Pr Signal Level Adjustment

BOARD	V IN (F5)
TP	Composite PR OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Composite Signal (100% Colour Bar)
MODE	EE
M. EQ	Analog WFM
SPEC.	Pr signal level (B): 700± 3mV

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-2 CMPST ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Adjust the **E05 SITE PR GAIN** so that the level "B" is in the specification.
5. Close the menu.

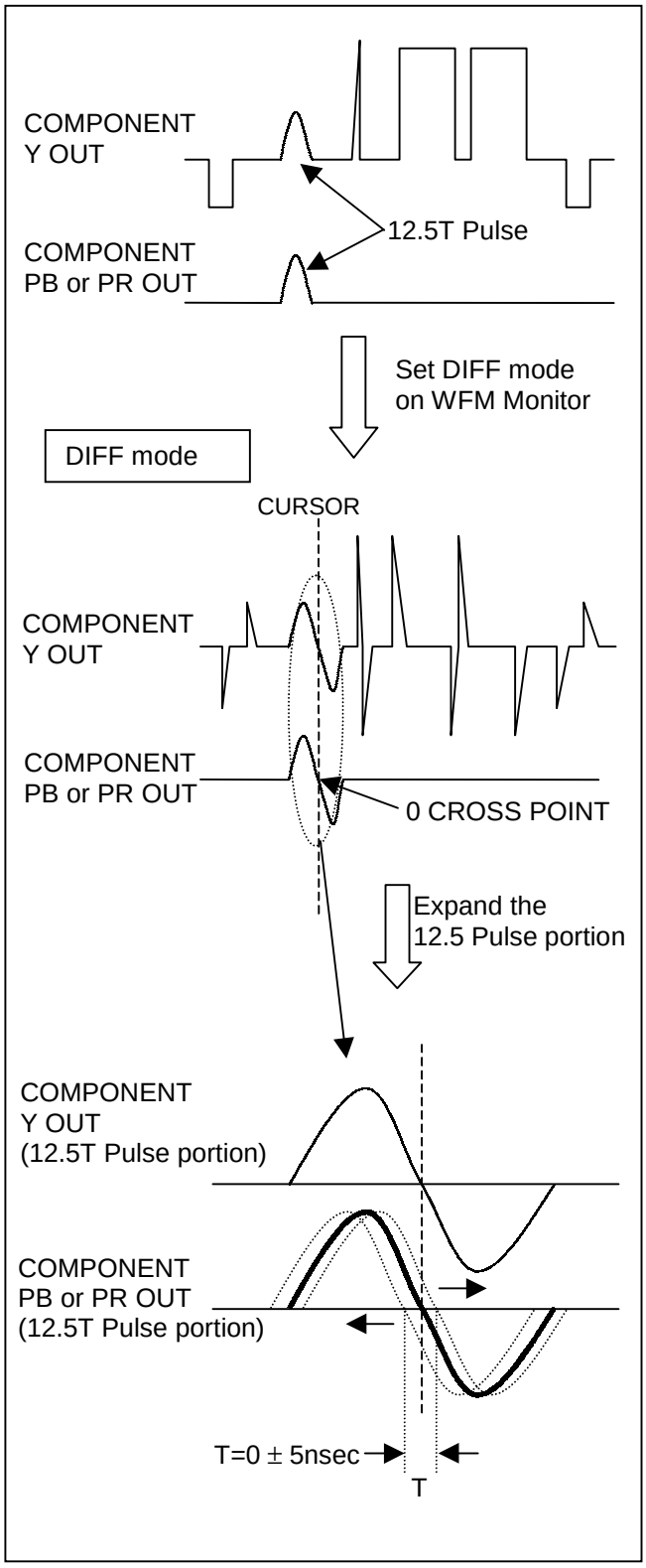


5-21.Composite Pb/Pr Signal Timing Adjustment

BOARD	V IN (F5)
TP	Y, Pr, Pb OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Composite Signal (Pulse and Bar with 12.5T modulation Signal)
MODE	EE
M. EQ	Analog WFM (DIFF mode)
SPEC.	T = 0± 5nsec

1. Confirm that the 12.5T modulation signal portion of Component Y OUT is displayed correctly on the WFM as shown in figure.
2. Confirm that the 12.5T modulation signal portion of Component PB and PR OUT is displayed correctly on the WFM as shown in figure.
3. Set WFM monitor to DIFF mode. In the DIFF mode, waveform of Y and PB or PR signals are integrated as shown in figure.
4. Expand the 12.5 pulse portion (an ellipse dotted portion as indicated in figure) and set the cursor to 0 cross point as shown in figure.
5. Open the SERVICE MENU (Refer to SEC1 Service Information.)
6. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
7. Select **E-2 CMPST ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
8. Adjust the **E04 SITE PB TMG or E07 SITE PR TMG** so that the signal timing between Y and PB or PR signal is in specification.
9. Close the Menu.

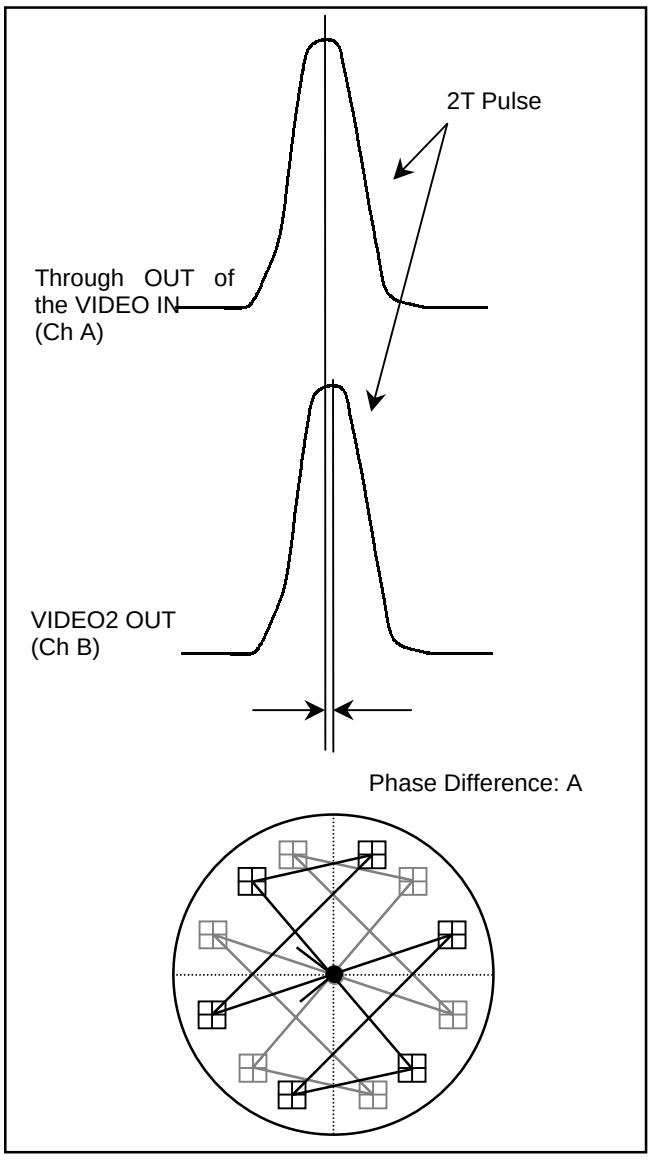
NOTE:
Please use WFM Monitor with DIFF mode.



5-22.Composite Video Out Phase Adjustment

BOARD	V IN (F5)
TP	VIDEO IN THRU VIDEO2 OUT
ADJ.	VR550 (SYNC0)
TAPE	-----
INPUT	Analog Composite Signal (Pulse and Bar with 2T modulation Signal) (100% Colour Bar)
MODE	EE
M. EQ	Analog WFM
SPEC.	Phase Difference A : 0 ± 10nsec

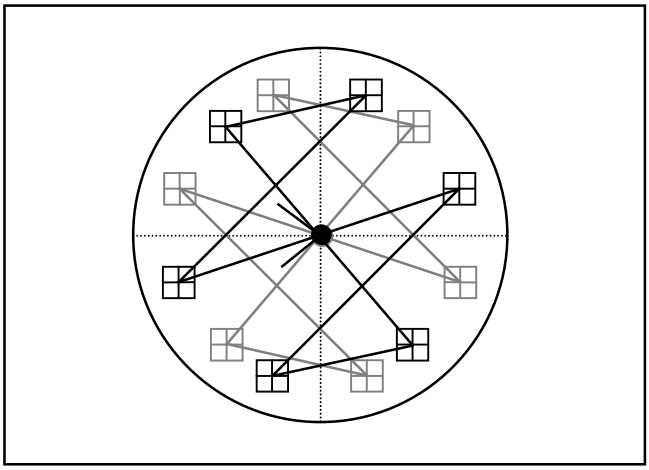
1. Input Pulse and Bar signal to Video IN terminal. Adjust VR550 (SYNC0) so that the phase difference of 2T pulse between through out of the VIDEO IN and the VIDEO OUT 2 is in the specification.
2. Change input signal to 100% colour bar signal. Then confirm that signal line on a vector scope should be linear line. If it is not, execute fine adjustment of VR550.



5-23.Composite Vector Adjustment

BOARD	V IN (F5)
TP	VIDEO 1 OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog Composite Signal (100% Colour Bar)
MODE	EE
M. EQ	Analog WFM
SPEC.	All vector dots are in the inner box

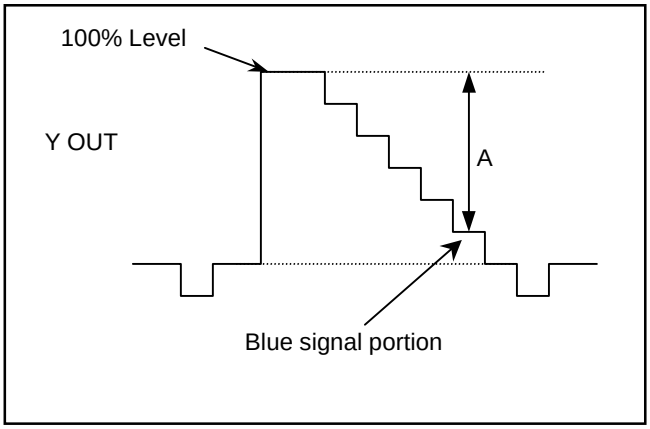
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-2 CMPST ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Adjust **E08 SITE CAXIS** so that the all vector dots are in the inner box.
5. Close the menu.



5-24.Y Signal Level (YC IN) Adjustment

BOARD	V IN (F5)
TP	Component Y OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog YC Signal (100% Colour Bar)
MODE	EE
M. EQ	Analog WFM
SPEC.	Y signal Level: 620 ± 3mV

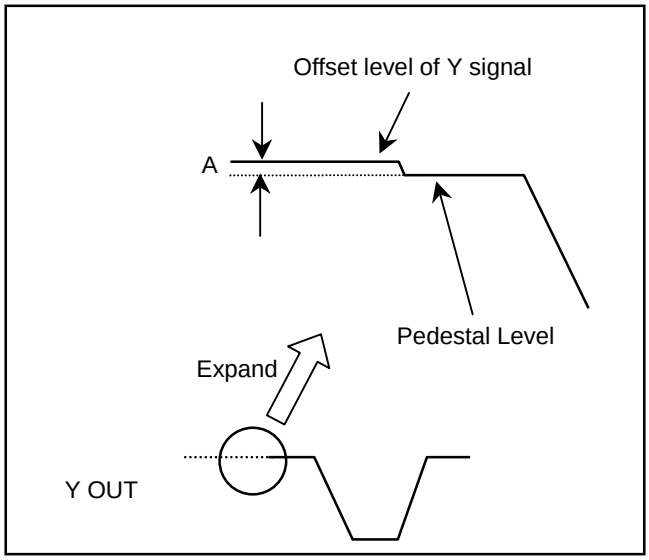
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-3 YC ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Adjust the **E00 YC Y GAIN** so that the level "A" is in the specification. (Level "A" is between 100% portion and blue signal portion.)
5. Close the menu.



5-25.Y Signal Offset Level (YC IN) Adjustment

BOARD	V IN (F5)
TP	Component Y OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog YC Signal (0% Flat Field)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pedestal level and the offset level of Y signal (A) : 0 ± 3mV

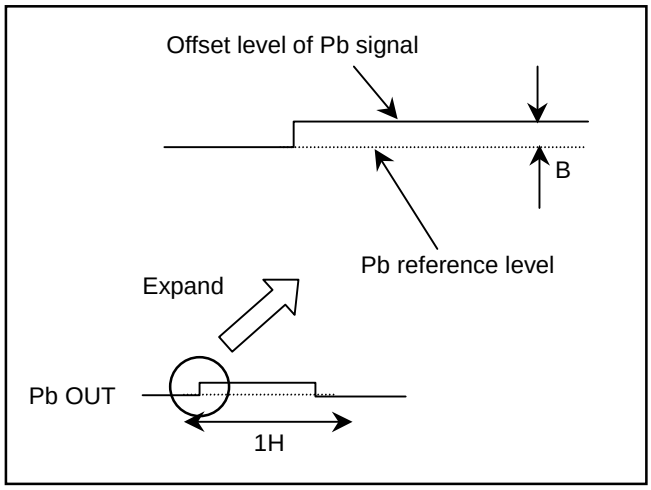
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-3 YC ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Adjust the **E01 YC Y OFS** so that the level "A" is in the specification. (Level "A" is the difference between the pedestal level and offset level of Y signal.)
5. Close the menu.



5-26.Pb Signal Offset level (YC IN) Adjustment

BOARD	V IN (F5)
TP	Component Pb OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog YC Signal (0% Flat Field)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pb reference level and the offset level of the Pb signal. (B) : 0± 3mV

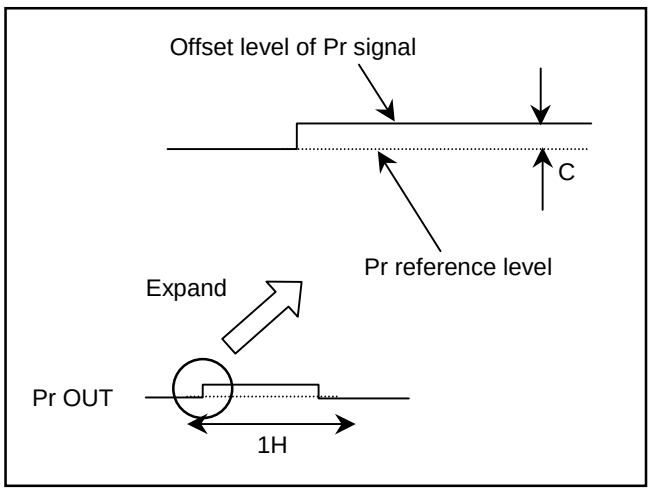
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-3 YC ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Adjust the **E03 YC PB OFS** so that the level "B" is in the specification. (Level "B" is the difference between the Pb reference level and the offset level of the Pb signal.)
5. Close the menu.



5-27.Pr Signal Offset level (YC IN) Adjustment

BOARD	V IN (F5)
TP	Component Pr OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog YC Signal (0% Flat Field)
MODE	EE
M. EQ	Analog WFM
SPEC.	The difference between the Pr reference level and the offset level of the Pr signal. (C) : 0± 3mV

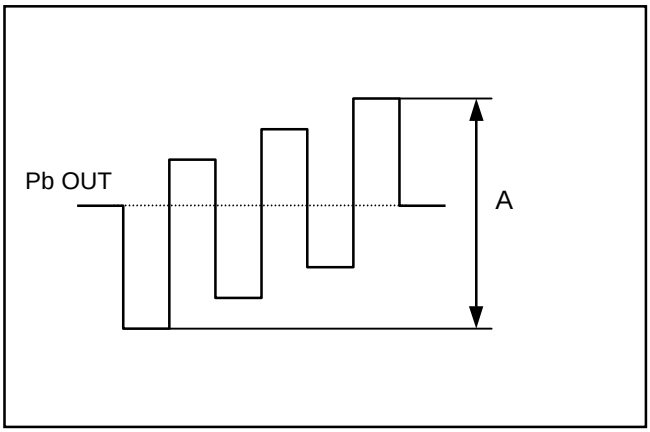
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-3 YC ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Adjust the **E06 YC PR OFS** so that the level "C" is in the specification. (Level "C" is the difference between the Pr reference level and the offset level of the Pr signal.)
5. Close the menu.



5-28.Pb signal Level (YC IN) Adjustment

BOARD	V IN (F5)
TP	Component Pb OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog YC Signal (100% Colour Bar)
MODE	EE
M. EQ	Analog WFM
SPEC.	Pb signal level (A): 700 ± 3mV

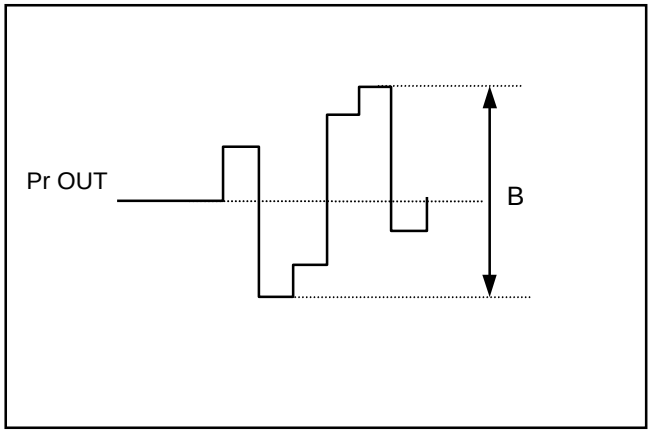
1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-3 YC ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Adjust the **E02 YC PB GAIN** so that the level "A" is in the specification.
5. Close the menu.



5-29.Pr signal Level (YC IN) Adjustment

BOARD	V IN (F5)
TP	Component PR OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog YC Signal (100% Colour Bar)
MODE	EE
M. EQ	Analog WFM
SPEC.	Pr signal level (B): 700 ± 3mV

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-3 YC ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Adjust the **E05 YC PR GAIN** so that the level "B" is in the specification.
5. Close the menu.

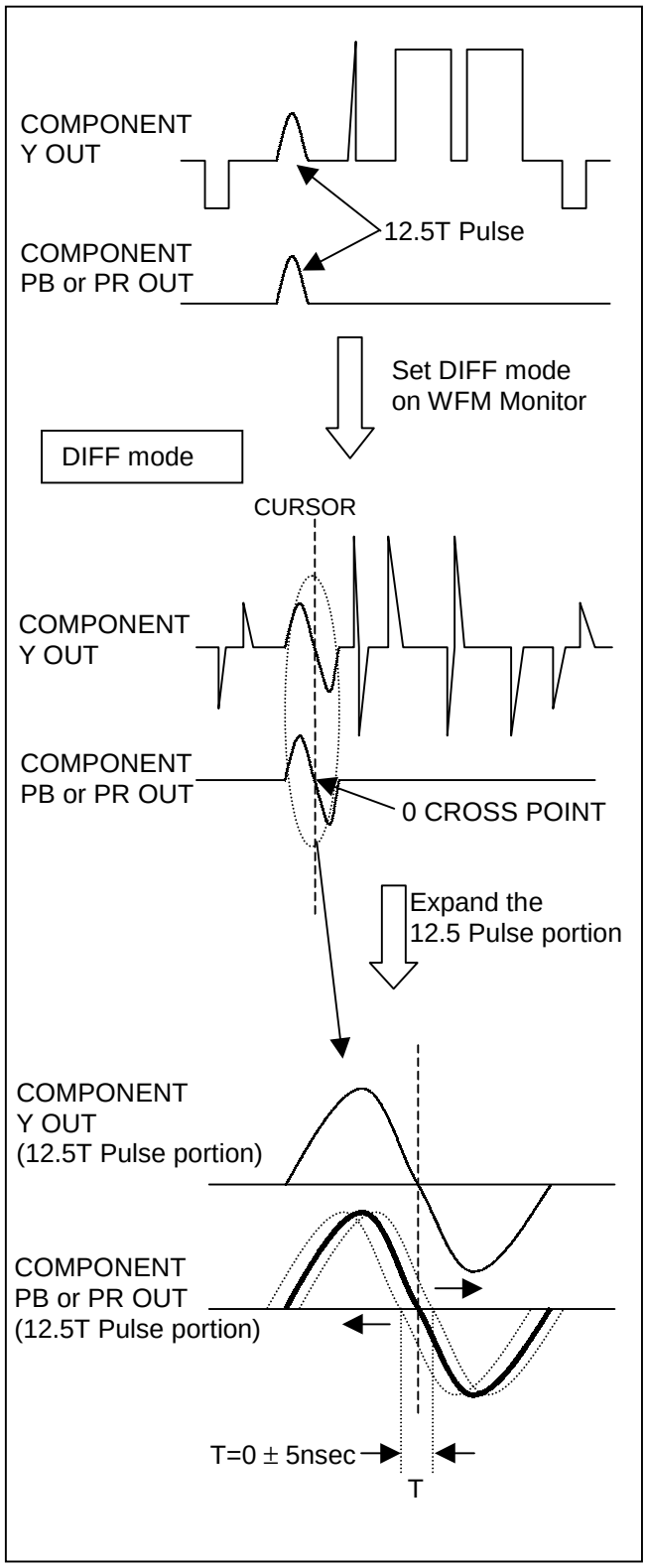


5-30.Pb/Pr Signal Timing (YC IN) Adjustment

BOARD	V IN (F5)
TP	Y, Pr, Pb OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog YC Signal (Pulse and Bar with 12.5T modulation Signal)
MODE	EE
M. EQ	Analog WFM (DIFF mode)
SPEC.	T = 0± 5nsec

1. Confirm that the 12.5T modulation signal portion of Component Y OUT is displayed correctly on the WFM as shown in figure.
2. Confirm that the 12.5T modulation signal portion of Component PB or PR OUT is displayed correctly on the WFM as shown in figure.
3. Set WFM monitor to DIFF mode. In the DIFF mode, waveform of Y and PB or PR signals are integrated as shown in figure.
4. Expand the 12.5 pulse portion (an ellipse dotted portion as indicated in figure) and set the cursor to 0 cross point as shown in figure.
5. Open the SERVICE MENU (Refer to SEC1 Service Information.)
6. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
7. Select **E-3 YC ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
8. Adjust the **E04 YC PB TMG or E07 YC PR TMG** so that the signal timing between Y and PB or PR signal is in the specification.
9. Close the Menu.

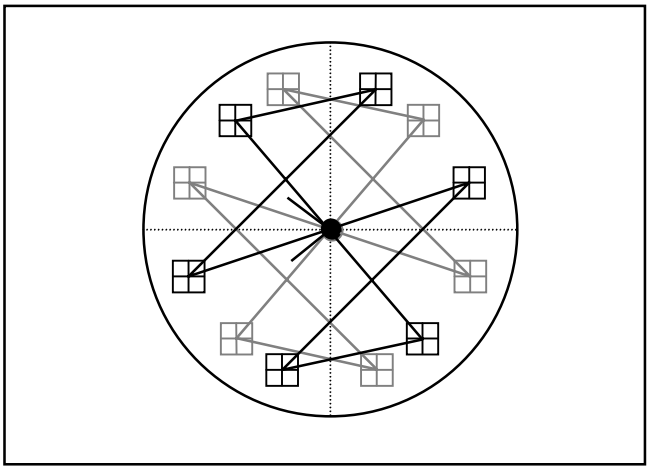
NOTE:
Please use WFM Monitor with DIFF mode.



5-31.YC IN Vector Adjustment

BOARD	V IN (F5)
TP	VIDEO 1 OUT
ADJ.	Service Menu
TAPE	-----
INPUT	Analog YC Signal (100% Colour Bar with 7.5% Set-up)
MODE	EE
M. EQ	Analog WFM
SPEC	All vector dots are in the inner box

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **E00: V IN ADJUST** and press the "SET" button to open the V IN ADJUST MENU.
3. Select **E-3 YC ADJUST** and press the "SET" button to open the CMPST ADJUST menu.
4. Adjust **E08 YC CAXIS** so that the all vector dots are in the inner box.
5. Close the menu.



6. AUDIO (F1) and RF/CUE

6-1. Setting

1. Set the audio impedance switches on the Audio (F1) board as shown below.

   SW100 : HIGH SW101 : HIGH

2. Set the Front Switch as shown bellow.

REC VR(CH1,CH2)	Center
Audio IN	ANALOG
REMOTE/LOCAL	LOCAL
HEAD PHONES	ST
HP VR	Center

1. Set the Audio Analyzer as shown below.

Audio Analyzer	
GENERATOR OUTPUT	50Ω (A&B, BAL, FLOAT)
ANALYZE CHA INPUT	100KΩ
ANALYZE CHB INPUT	100KΩ
UNIT SETTING	dBu

<Service Menu Setting>

1. Open the Service Menu. (Refer to SEC1 Service Information.)
2. Select the **G00: AUDIO ADJUST**.
3. Set the items as shown below

MENU	Setting
G02:REF LEVEL2	0dB
G03:REF LV INI	0dB
G09:LINE OUT CUE	OFF

<User Menu Setting>

1. Open the User Menu and set the items as shown below.

MENU	Setting
700 CH1 IN LEV	0dB
701 CH2 IN LEV	0dB
703 CH1 OUT LEV	0dB
704 CH2 OUT LEV	0dB
714 REC CH1	CH1
715 REC CH2	CH2
716 REC CUE	CH1
718 DV OUTPUT	ST1
719 PB FADE	AUTO
720 EMBEDED AUD	ON
721 LINE CH SEL	PCM
722 INT SIG	OFF
723 DV PB ATT	OFF
729 REC PT MUT	OFF
731 REF LEVEL	FS-18

6-2. CH1, CH2 Output Level Adjustment

BOARD	AUDIO (F1)
TP	AUDIO OUT (CH1, CH2)
ADJ.	VR300 (CH1 OUT LV) VR301 (CH2 OUT LV)
TAPE	-----
INPUT	INT SIG
MODE	EE
M. EQ	Oscilloscope, Monitor TV, Audio Analyzer
SPEC.	0dBu ± 0.2dB

1. Set the SET-UP MENU as shown bellow.
   722 INT SIG : ON
2. Adjust VR300 so that the CH1 level is in the specification.
3. Adjust VR301 so that the CH2 level is in the specification.
4. Confirm that the level meter on the front panel is displayed at –18dB.

6-3. CH1, CH2 Input Level Adjustment

BOARD	AUDIO (F1)
TP	AUDIO OUT (CH1, CH2)
ADJ.	VR200 (CH1 IN LV) VR201 (CH2 IN LV)
TAPE	-----
INPUT	LINE IN CH1,2 (1KHz 0dBu, Sinewave)
MODE	EE
M. EQ	Oscilloscope, Monitor TV, Audio Analyzer
SPEC.	0dBu ± 0.2dB

1. Adjust VR200 so that the CH1 level is in the specification.
2. Adjust VR201 so that the CH2 level is in the specification.

6-4. CUE BIAS CURRENT Adjustment

BOARD	RF/CUE
TP	TP4005 [RF/CUE Board] TP4006 (GND) [RF/CUE Board]
ADJ.	VR4001(BIAS), FL4001(Core)
TAPE	Blank Tape
INPUT	-----
MODE	REC
M. EQ	Oscilloscope, VTVM
SPEC.	7mVrms ± 0.5 mVrms

1. Set the VR4001 (BIAS) to the center position.
2. Connect the Vacuum Tube Volt Meter between TP4005 (HOT) and TP4006 (GND).
   Adjust FL4001 and VR4001 so that the voltage is in the specification.

6-5. CUE PB Level Adjustment

BOARD	AUDIO (F1)
TP	AUDIO OUT (CH1)
ADJ.	Service Menu VR800 (PB LEVEL)
TAPE	VFM3580KM/KL
INPUT	-----
MODE	EE
M. EQ	Oscilloscope, Monitor TV, Audio Analyzer
SPEC.	0dBu ± 1.0dB

1. Open the SERVICE MENU. (Refer to SEC1 Service Information.)
2. Select the **G00: AUDIO ADJUST** and press the "SET" button to open the AUDIO ADJUST MENU.
3. Set the **G09 LINE OUT CUE** to ON.

<Caution>
During this adjustment, do not close the Service Menu. The setting of G09 LINE OUT CUE will be reset to OFF automatically.

4. Playback the CUE level master tape (25M), and adjust VR800 (PB LEVEL) so that the LINE OUT CH1 level is in the specification.
5. Close the menu.

<Caution>
1. Clean the A/C head, before this adjustment is executed.
2. Confirm the tape path condition around A/C head.

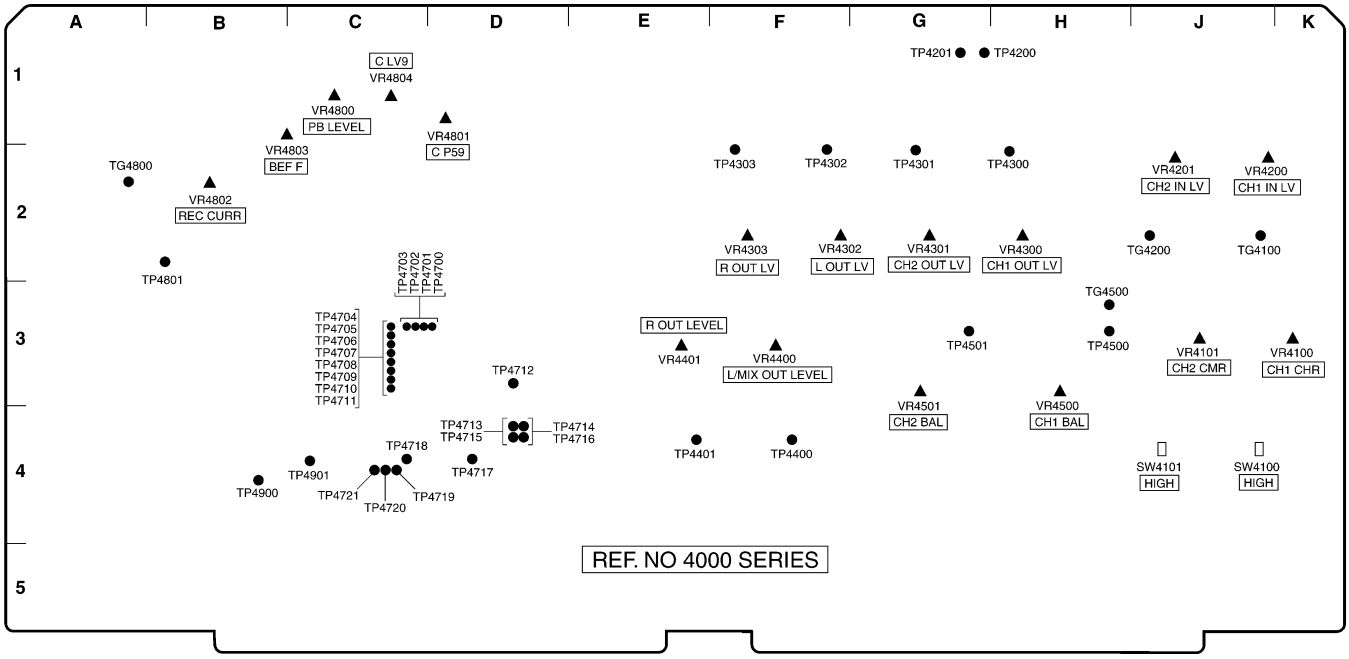
6-6. CUE REC/PB Level Adjustment

BOARD	AUDIO (F1)
TP	TP4005 [RF/CUE Board] TP4006 (GND) [RF/CUE Board] AUDIO OUT (CH1)
ADJ.	SERVICE MENU VR802 (REC CURR)
TAPE	Blank Tape
INPUT	AUDIO IN CH1,2 (1KHz 0dBu Sinewave)
MODE	SELF-REC / PLAY
M. EQ	Oscilloscope, Monitor TV Audio Analyzer, VTVM
SPEC.	0dBu ± 1.0dB

1. Open the SET UP MENU by pressing the "MENU" button.
2. Select the "**716 REC CUE**" item and set it to the CH1. After that press the "SET" button.
3. Supply a 1kHz, 0dBu sinewave signal into the AUDIO IN (Both CH1 and CH2) and record the input signal for few minutes.
4. Playback the just recorded portions and confirms that the AUDIO OUT (CH1) is in the specification.
5. If it is not, slightly adjust VR802 and then repeat step 3 to 5 until it is in the specification.

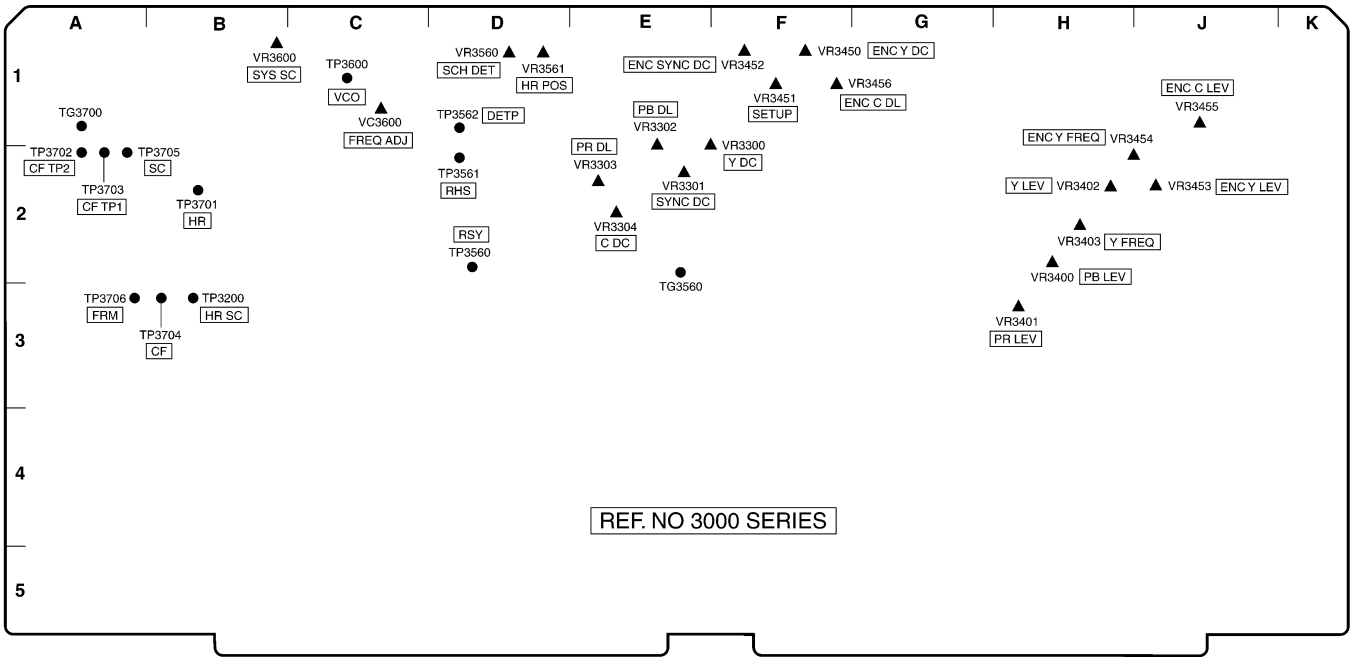
7. TP, VR, SW Location

F1 AUDIO P.C.BOARD (VEP84374A)



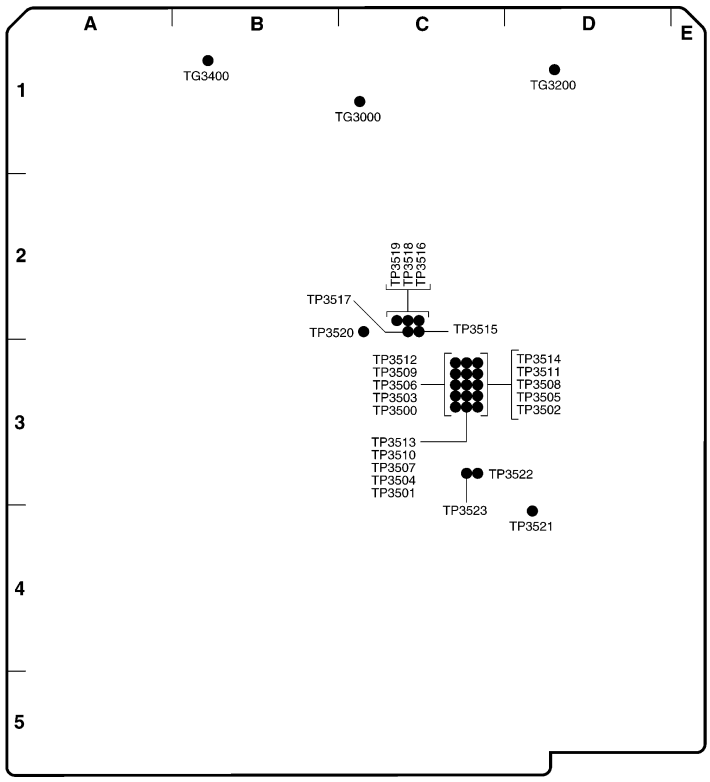
COMPONENT SIDE

F2 V OUT P.C.BOARD (VEP83557B)



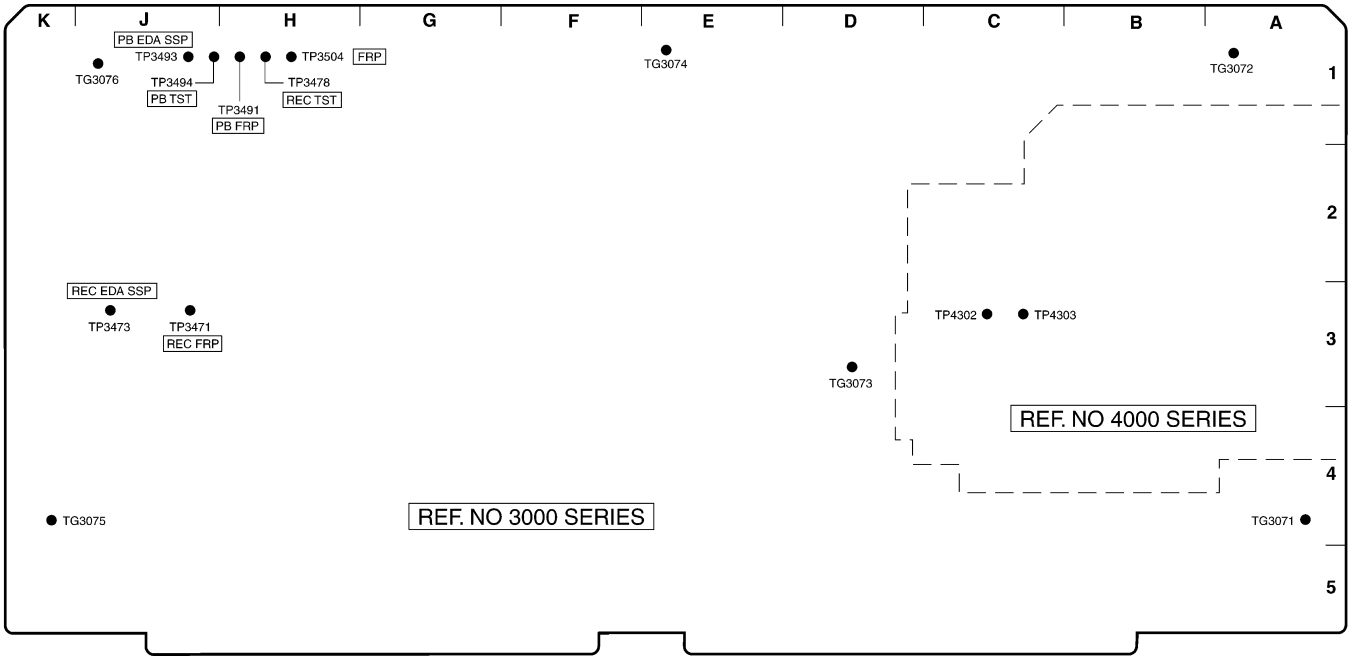
COMPONENT SIDE

F3A SDI P.C.BOARD (VEP83558A) (AJ-YA455P)



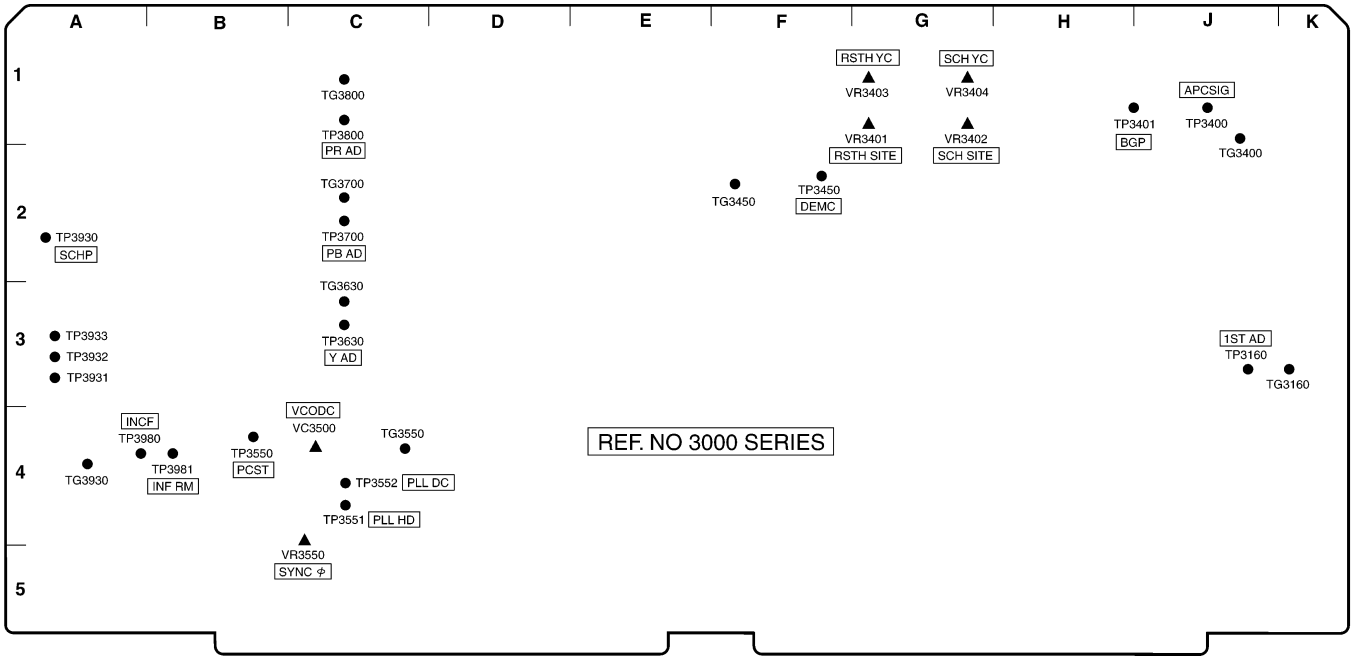
COMPONENT SIDE

F4 D PROC P.C.BOARD (VEP83554B)



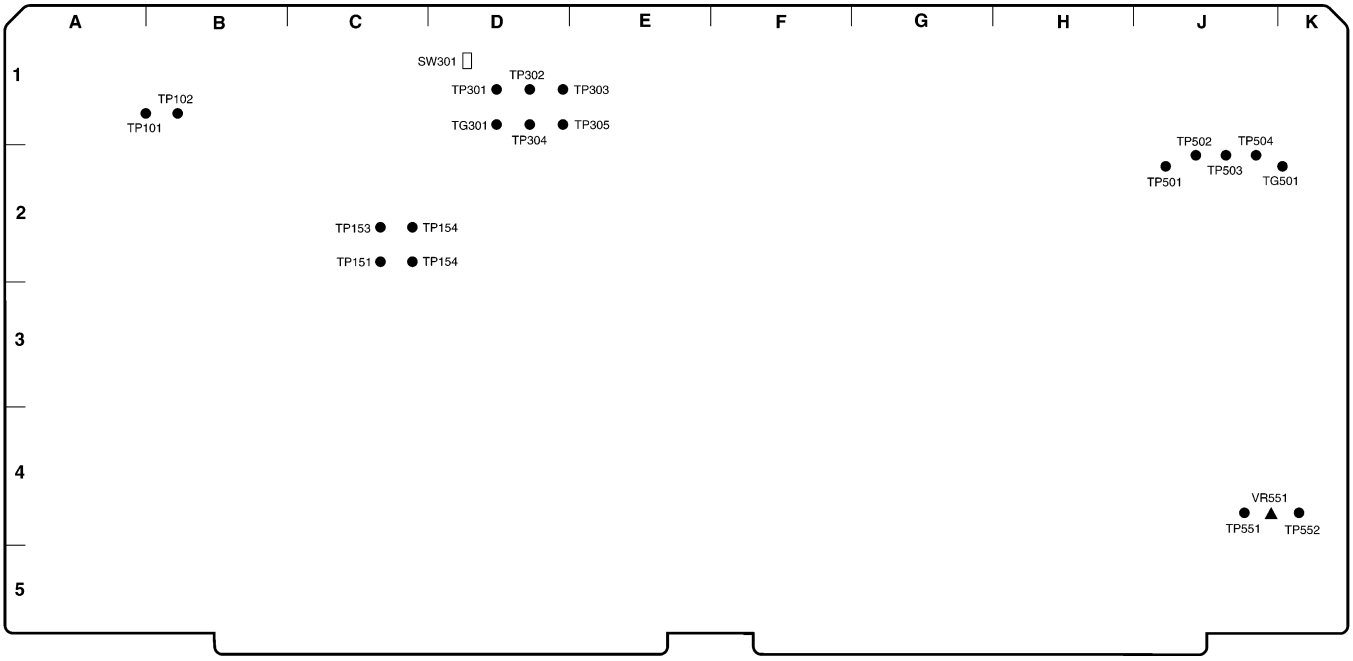
FOIL SIDE

F5 V IN P.C.BOARD (VEP83553B)



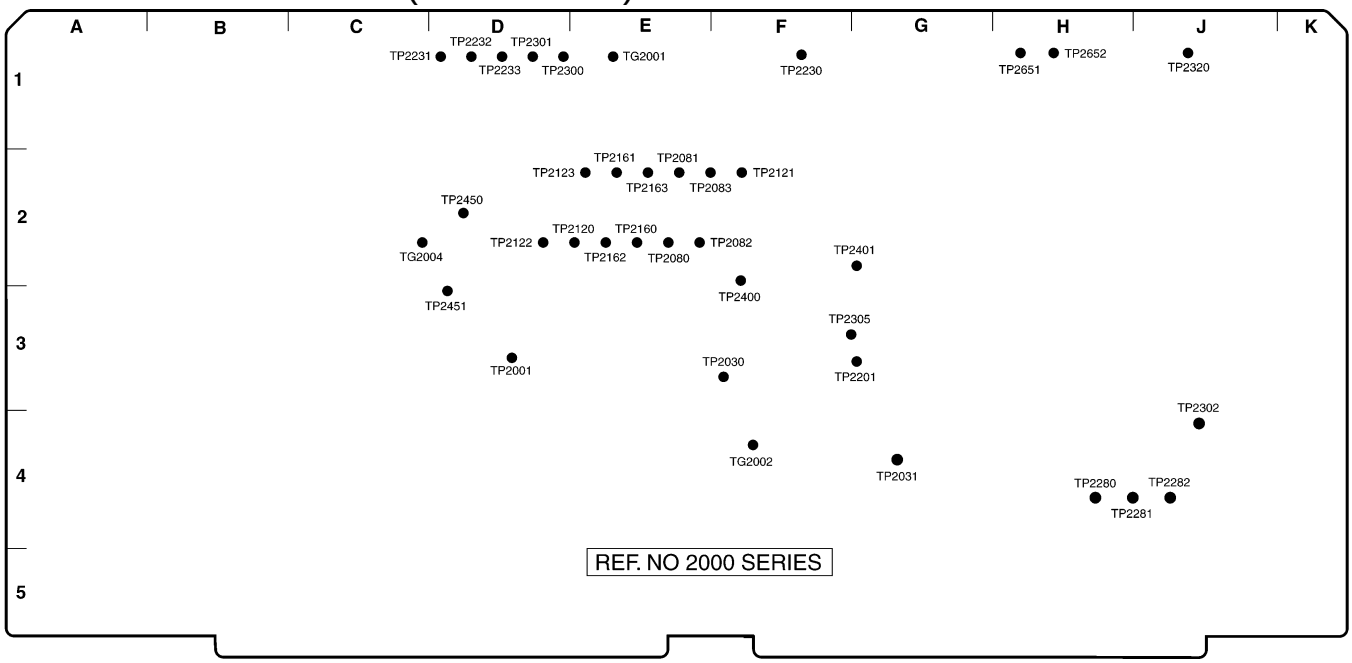
COMPONENT SIDE

F6 SYSCON P.C.BOARD (VEP86314B)



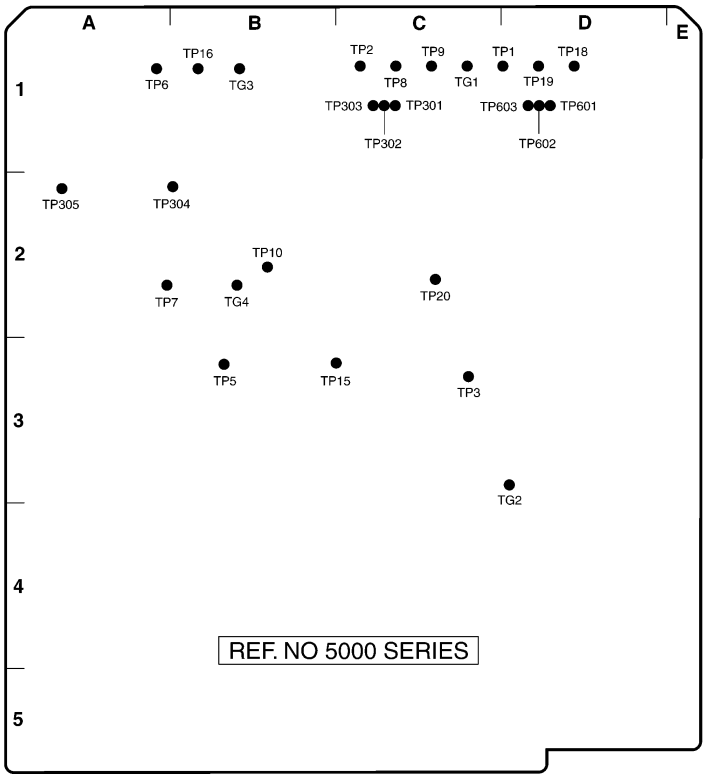
COMPONENT SIDE

F7 SERVO P.C.BOARD (VEP82238B)



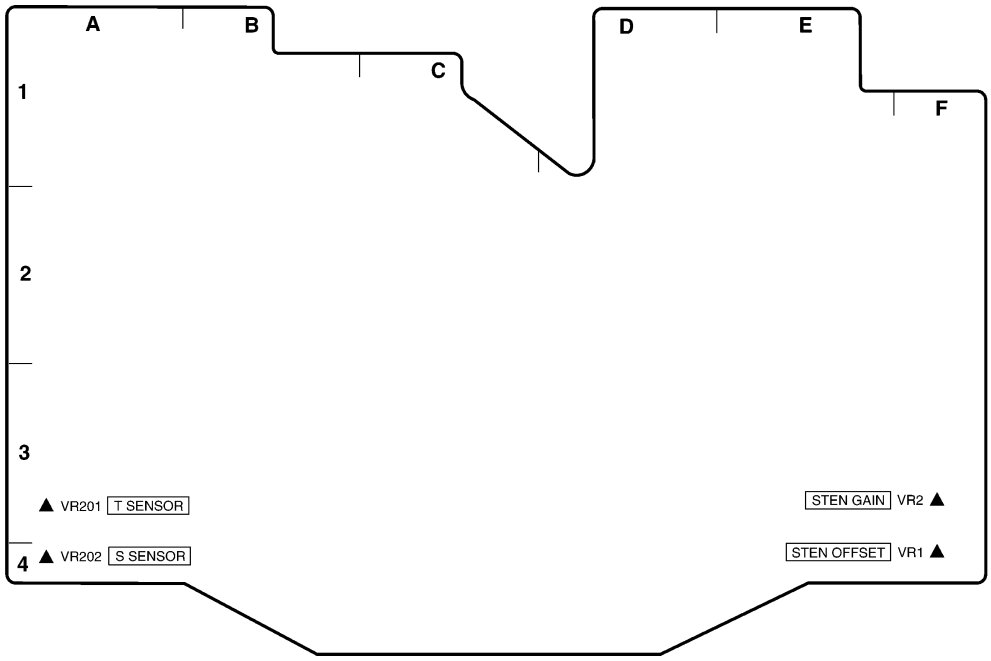
COMPONENT SIDE

F8 RF EQ P.C.BOARD (VEP85196A)



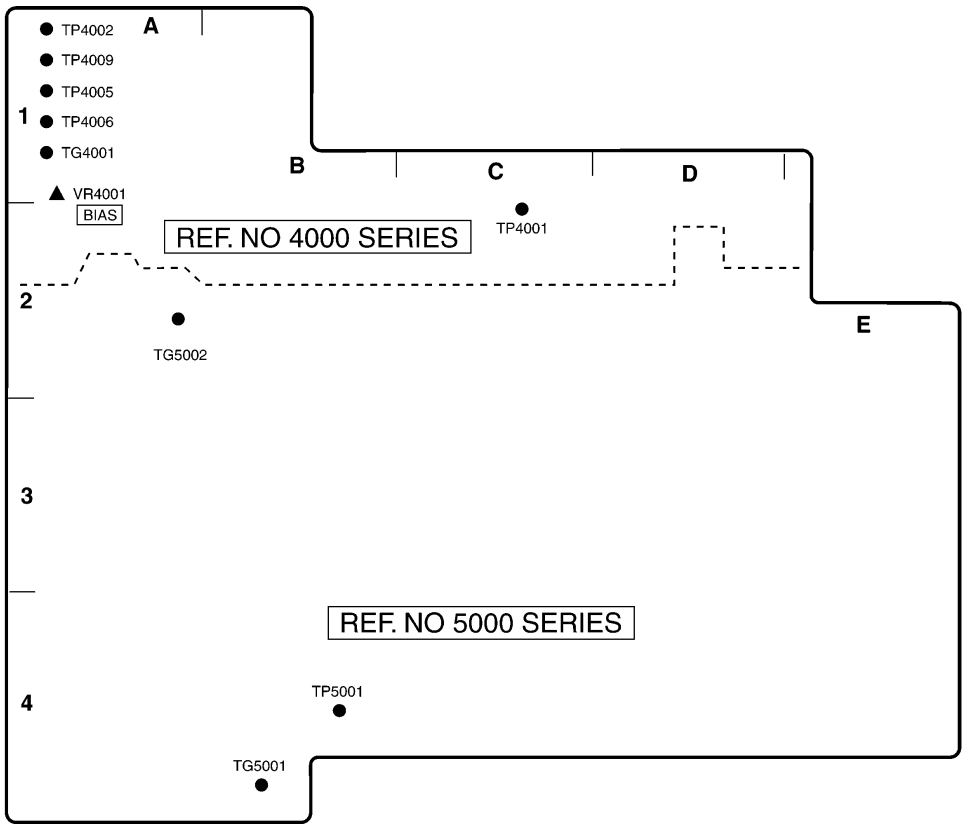
COMPONENT SIDE

MECHA IF P.C.BOARD (VEP82239A)



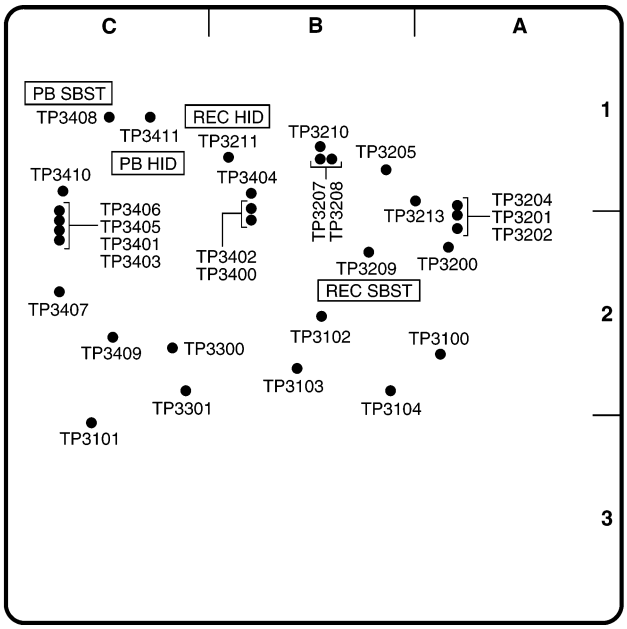
COMPONENT SIDE

RF CUE P.C.BOARD (VEP85197A)



COMPONENT SIDE

CSP SUB P.C.BOARD (VEP83555A)



FOIL SIDE

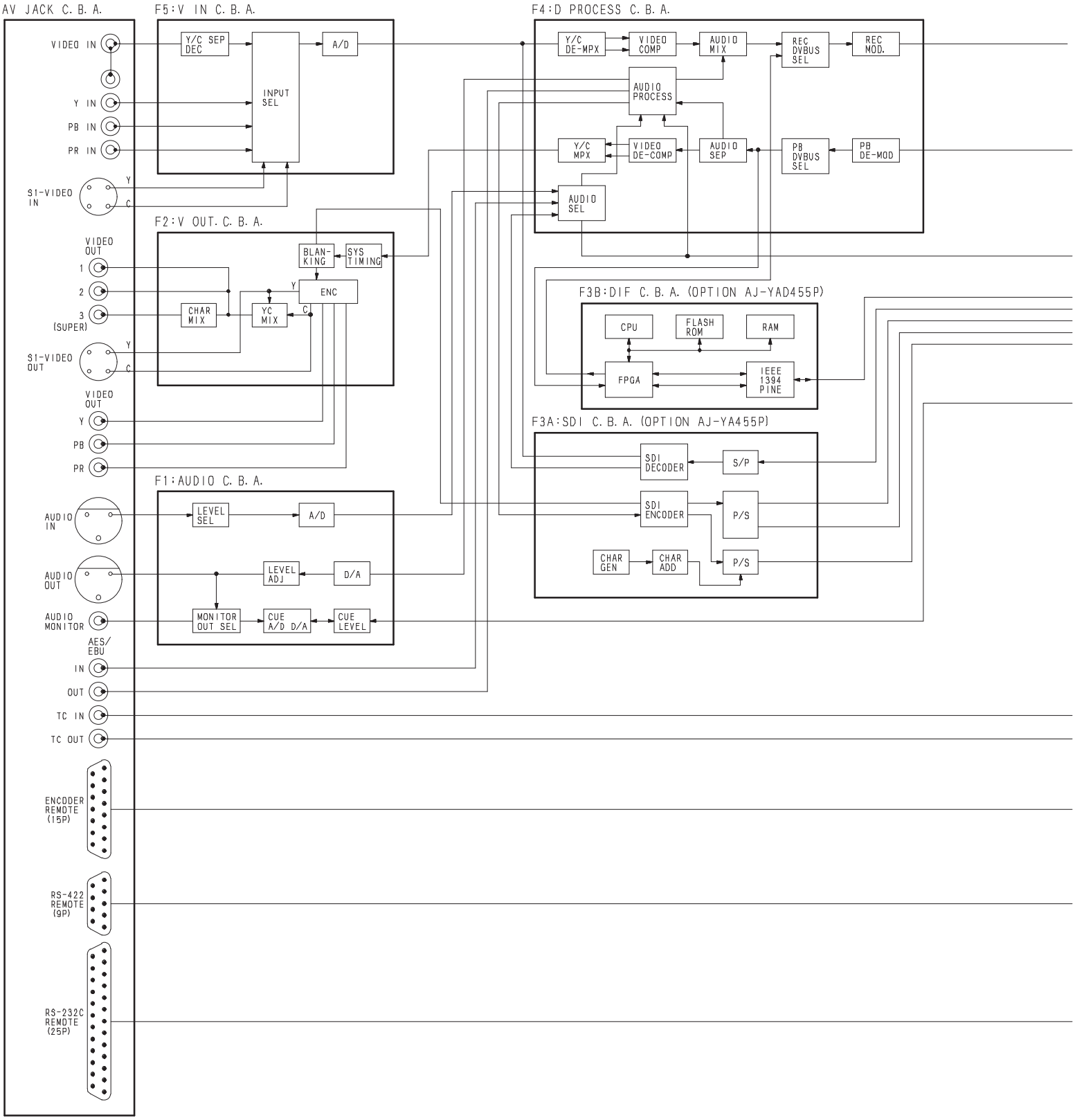
SECTION 4

BLOCK DIAGRAMS

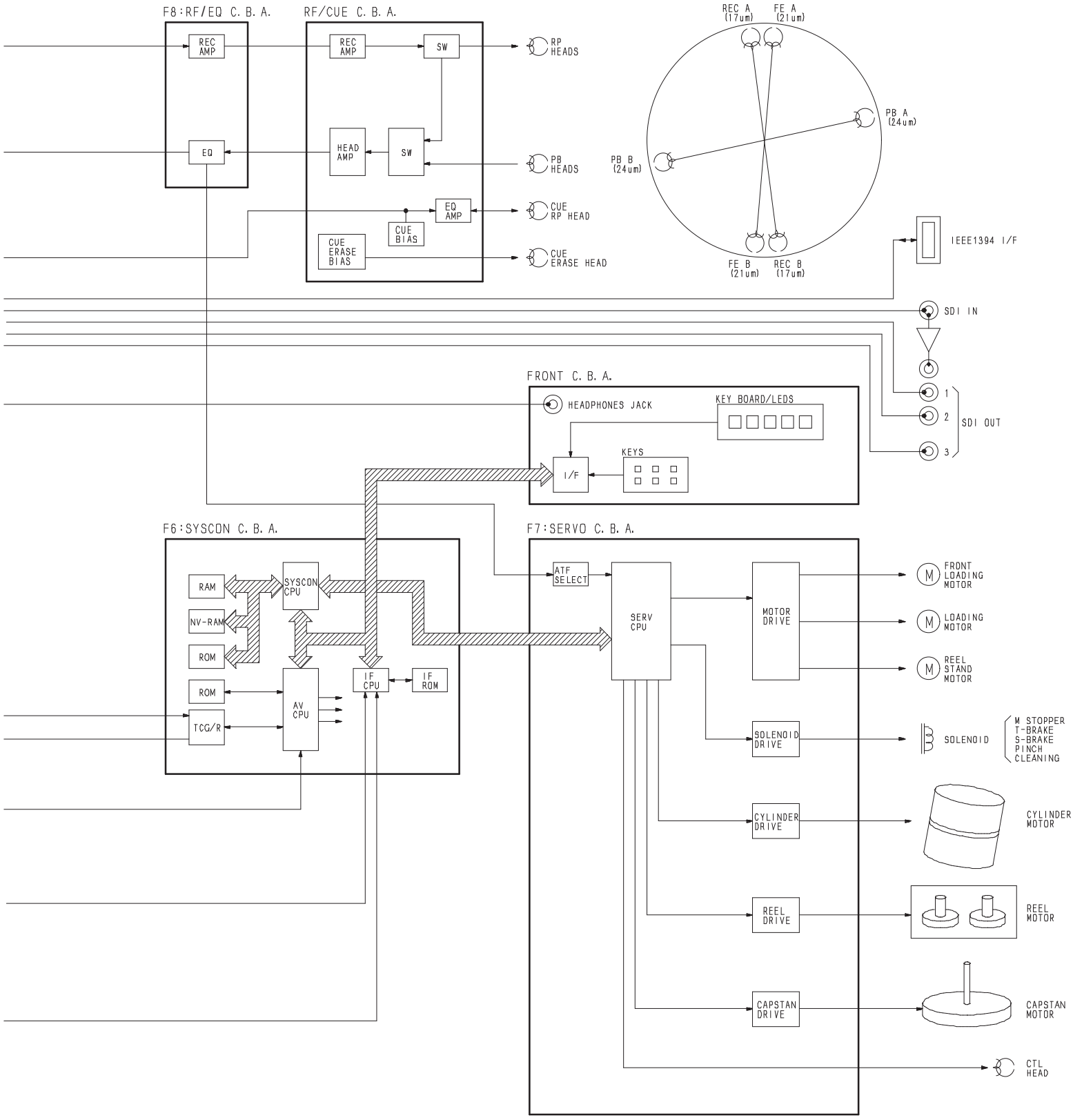
CONTENTS

OVERALL BLOCK DIAGRAM BLK-1
F1:AUDIO BLOCK DIAGRAM BLK-3
F2:VIDEO OUT BLOCK DIAGRAM BLK-5
FRONT BLOCK DIAGRAM BLK-7
F4:D PROCESS BLOCK DIAGRAM BLK-8
F5:VIDEO IN BLOCK DIAGRAM BLK-13
F6:SYSCON BLOCK DIAGRAM BLK-15
F7:SERVO BLOCK DIAGRAM BLK-17
RF/CUE BLOCK DIAGRAM BLK-19
F8:RF/EQ BLOCK DIAGRAM BLK-20
F3A:SDI BLOCK DIAGRAM(AJ-YA455P) BLK-21
F3B:DIF BLOCK DIAGRAM(AJ-YAD455P) BLK-23

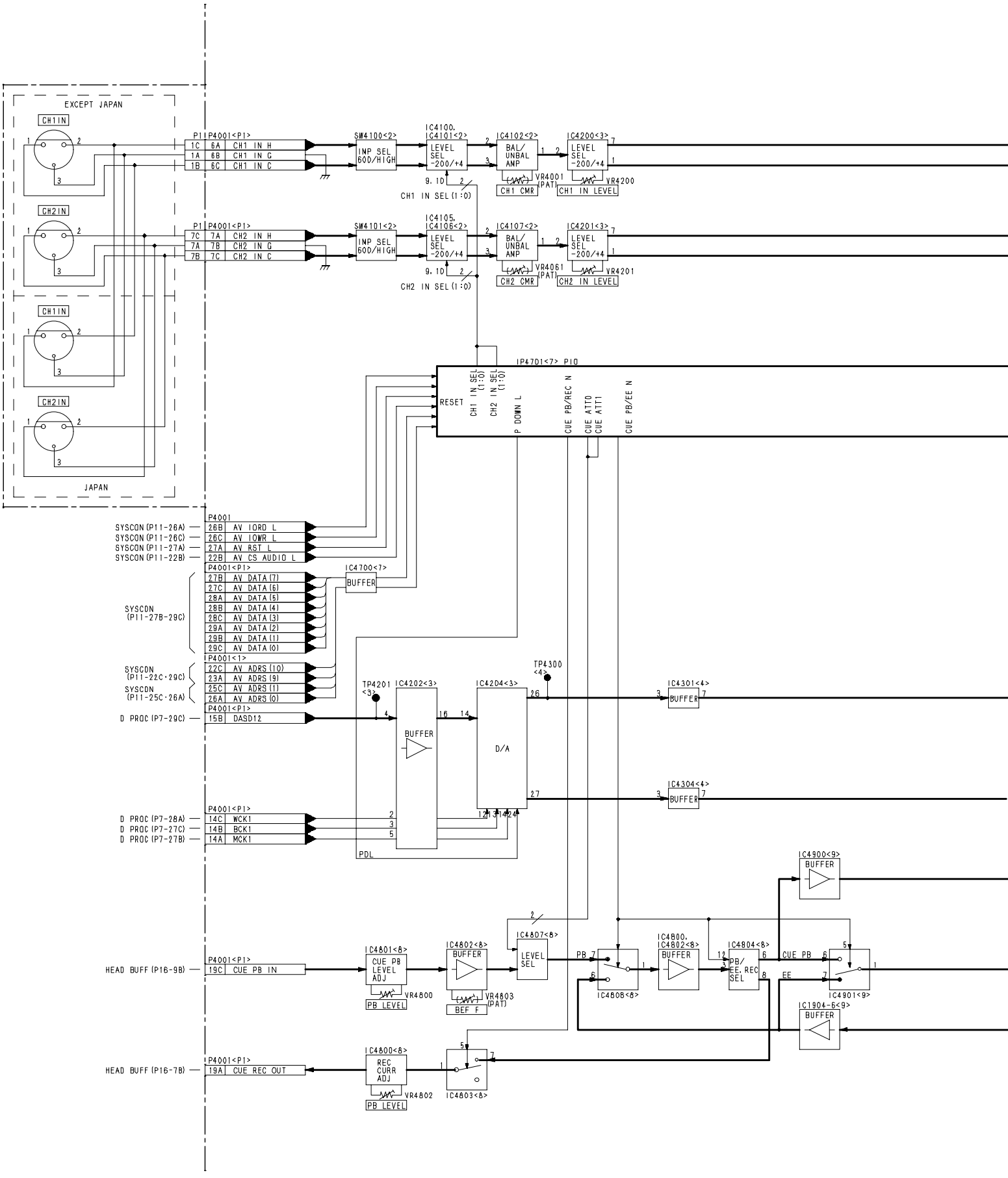
OVERALL BLOCK DIAGRAM (1/2)



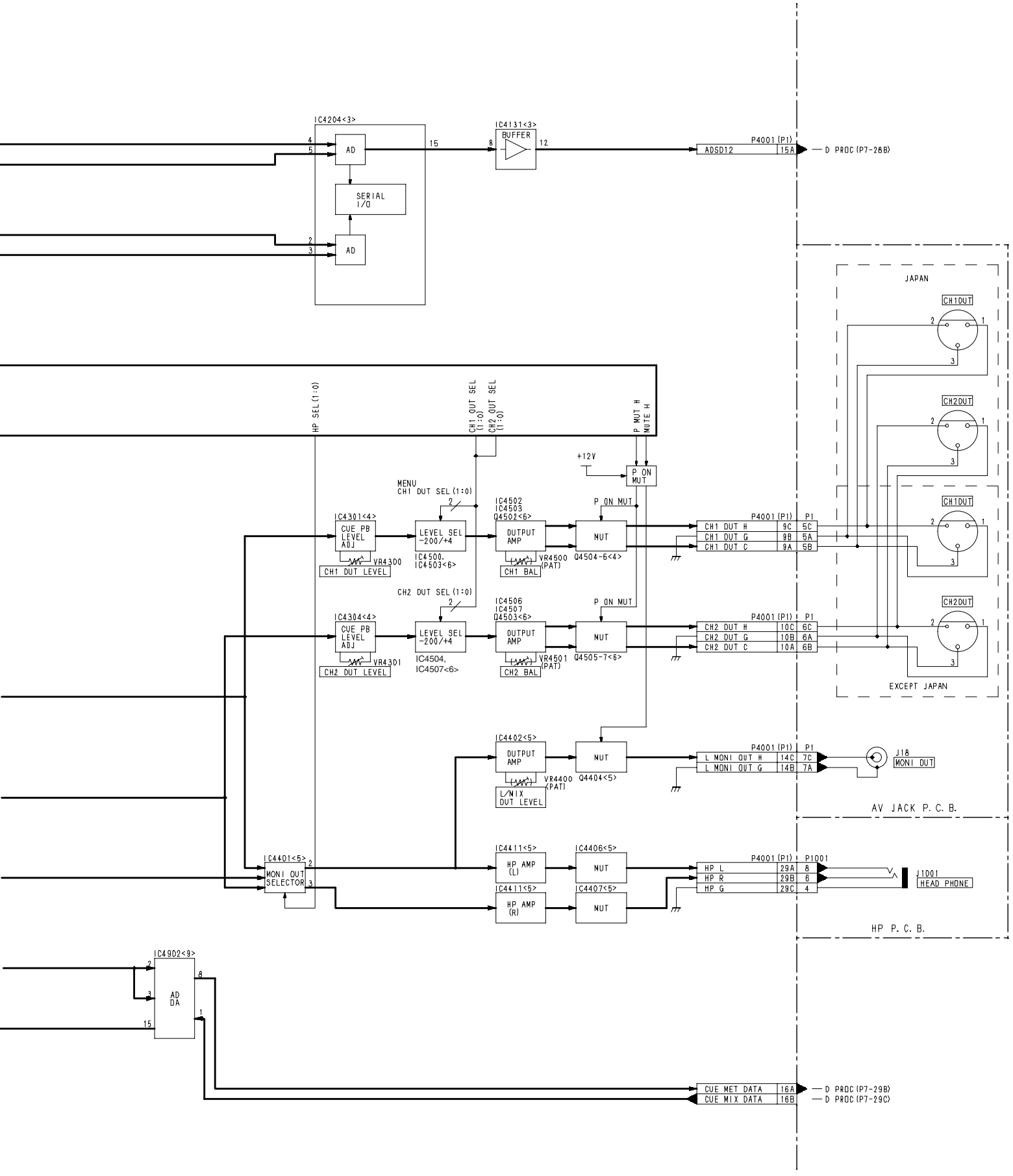
OVERALL BLOCK DIAGRAM (2/2)



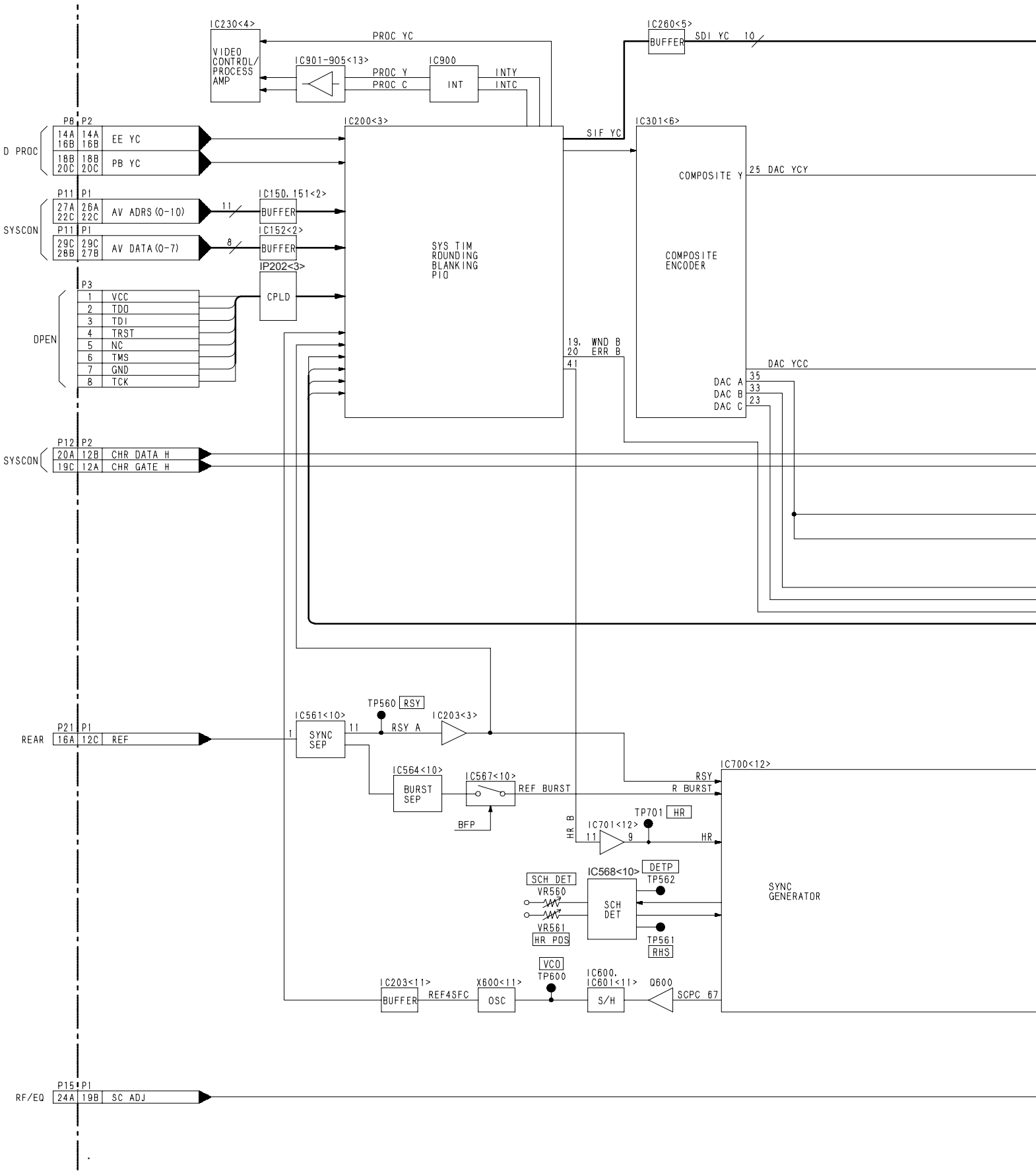
F1:AUDIO BLOCK DIAGRAM (1/2)



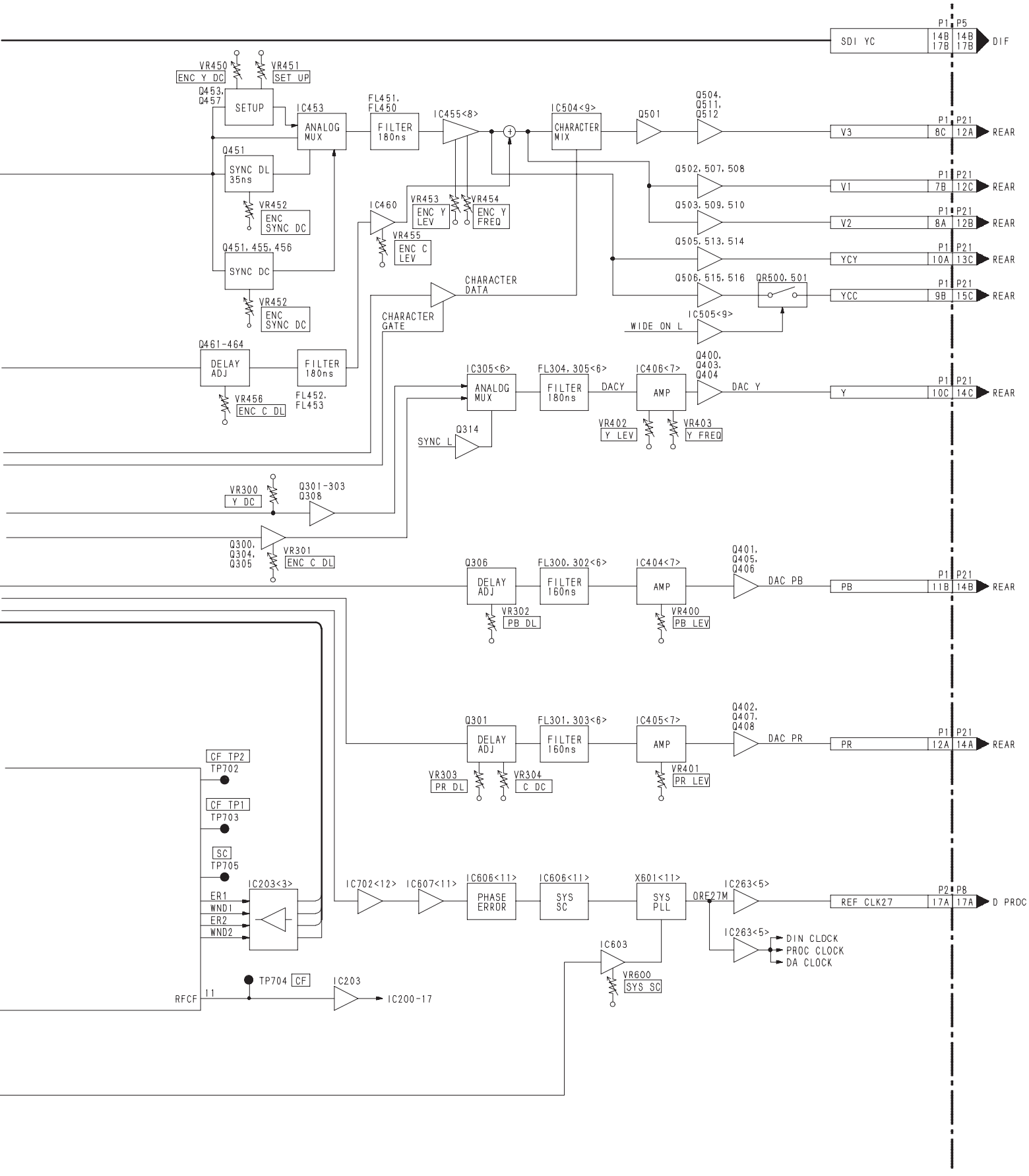
F1:AUDIO BLOCK DIAGRAM (2/2)



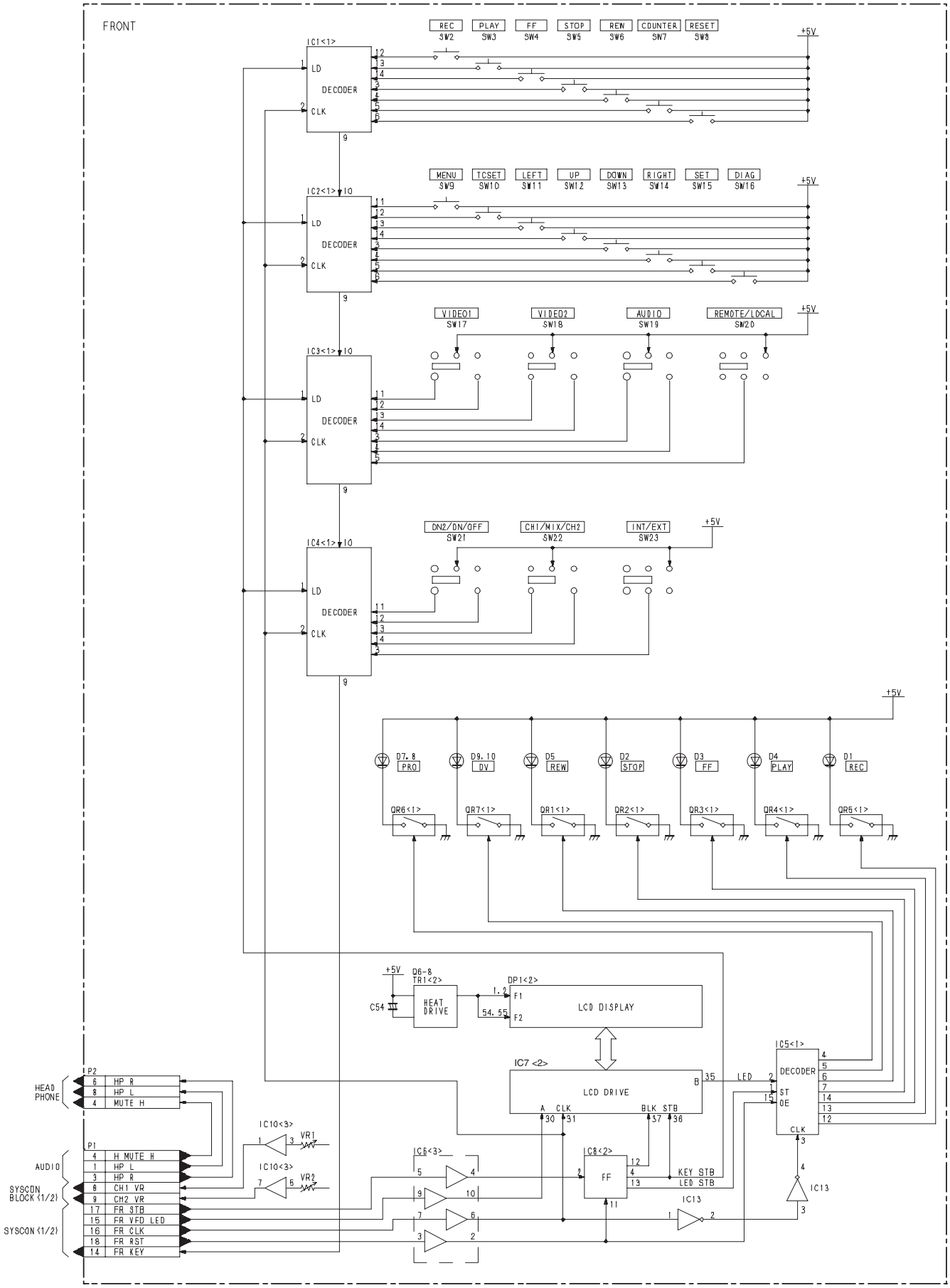
F2:VIDEO OUT BLOCK DIAGRAM (1/2)



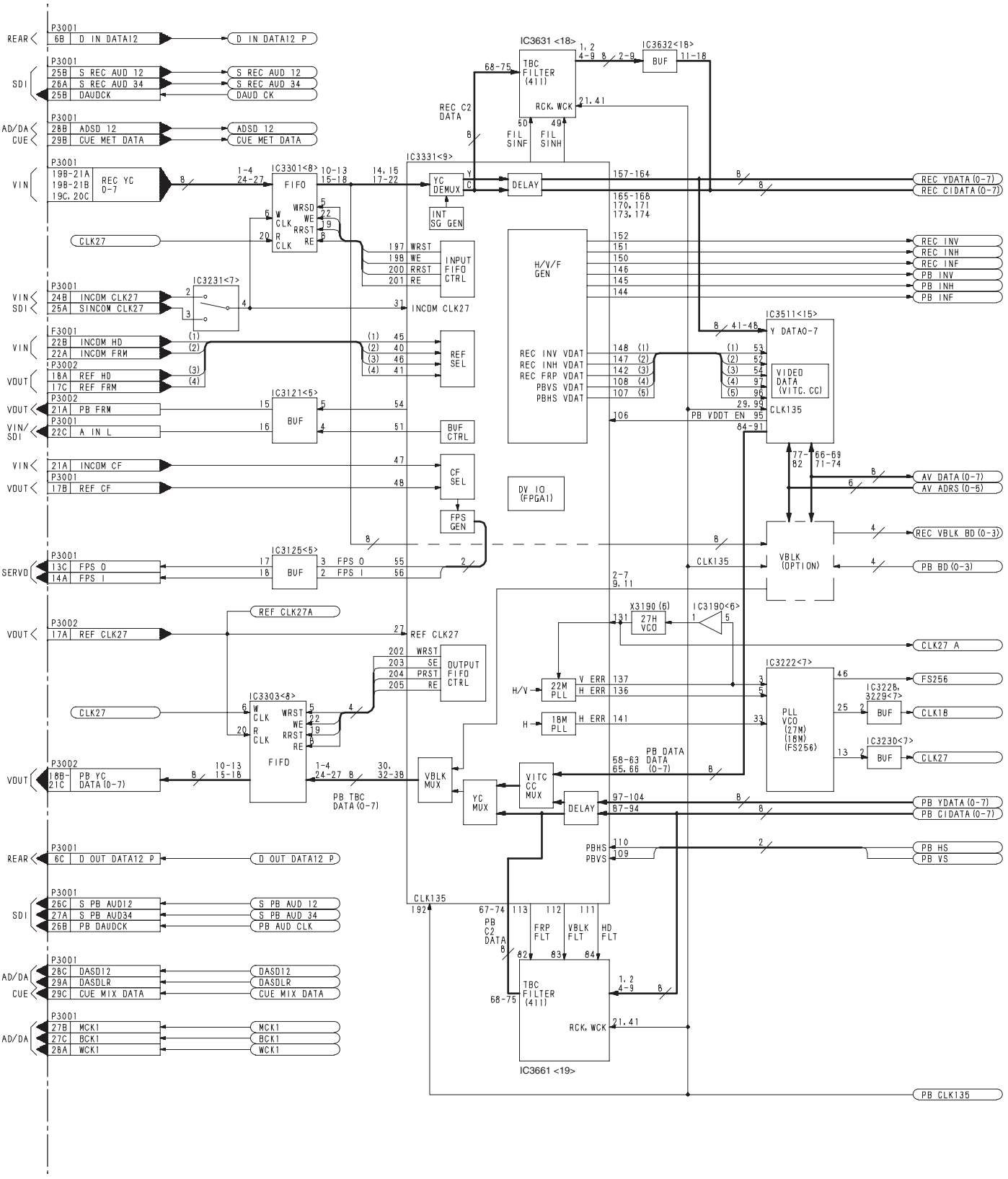
F2:VIDEO OUT BLOCK DIAGRAM (2/2)



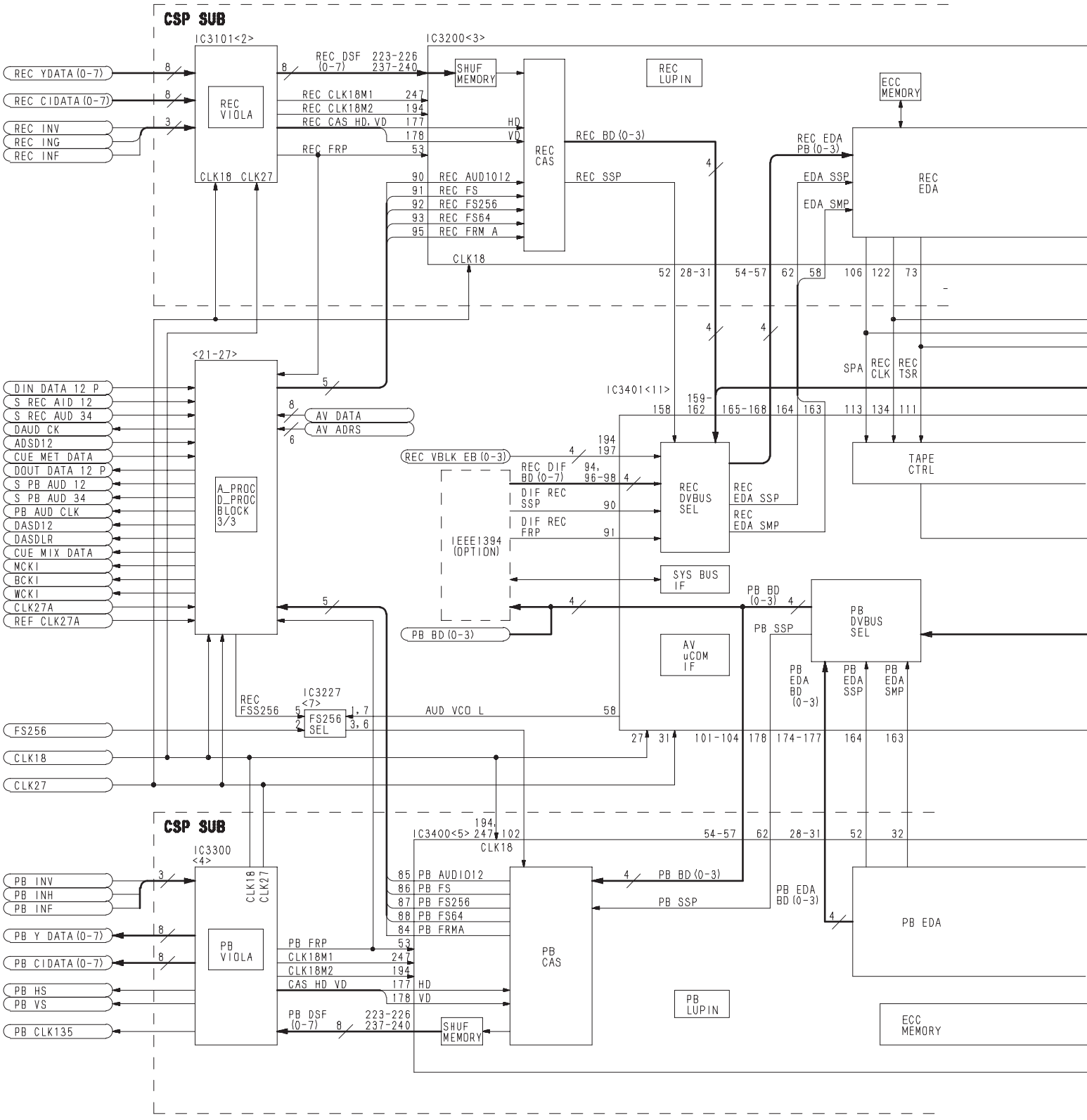
FRONT BLOCK DIAGRAM



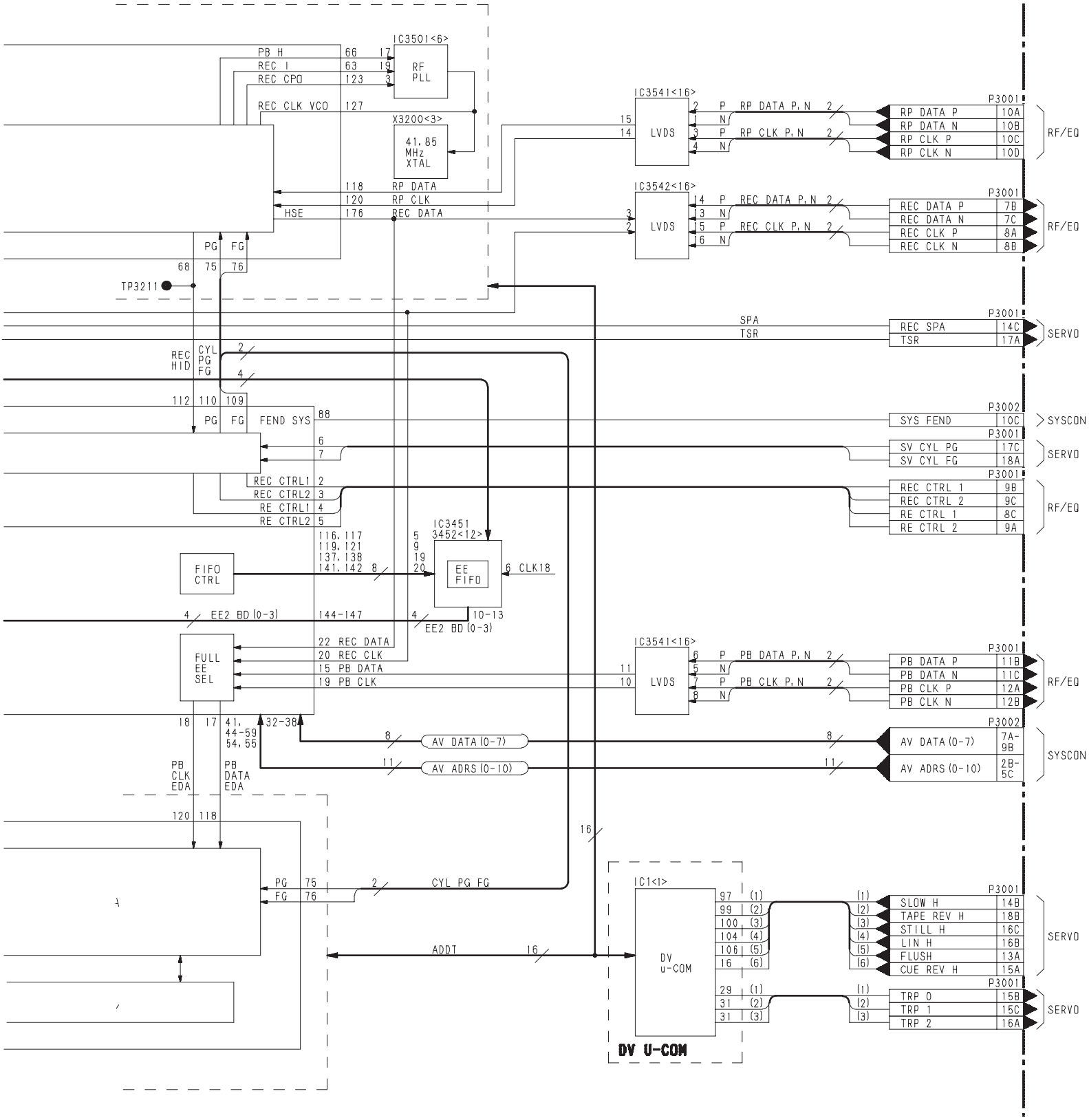
F4:D PROCESS BLOCK DIAGRAM (1/5)



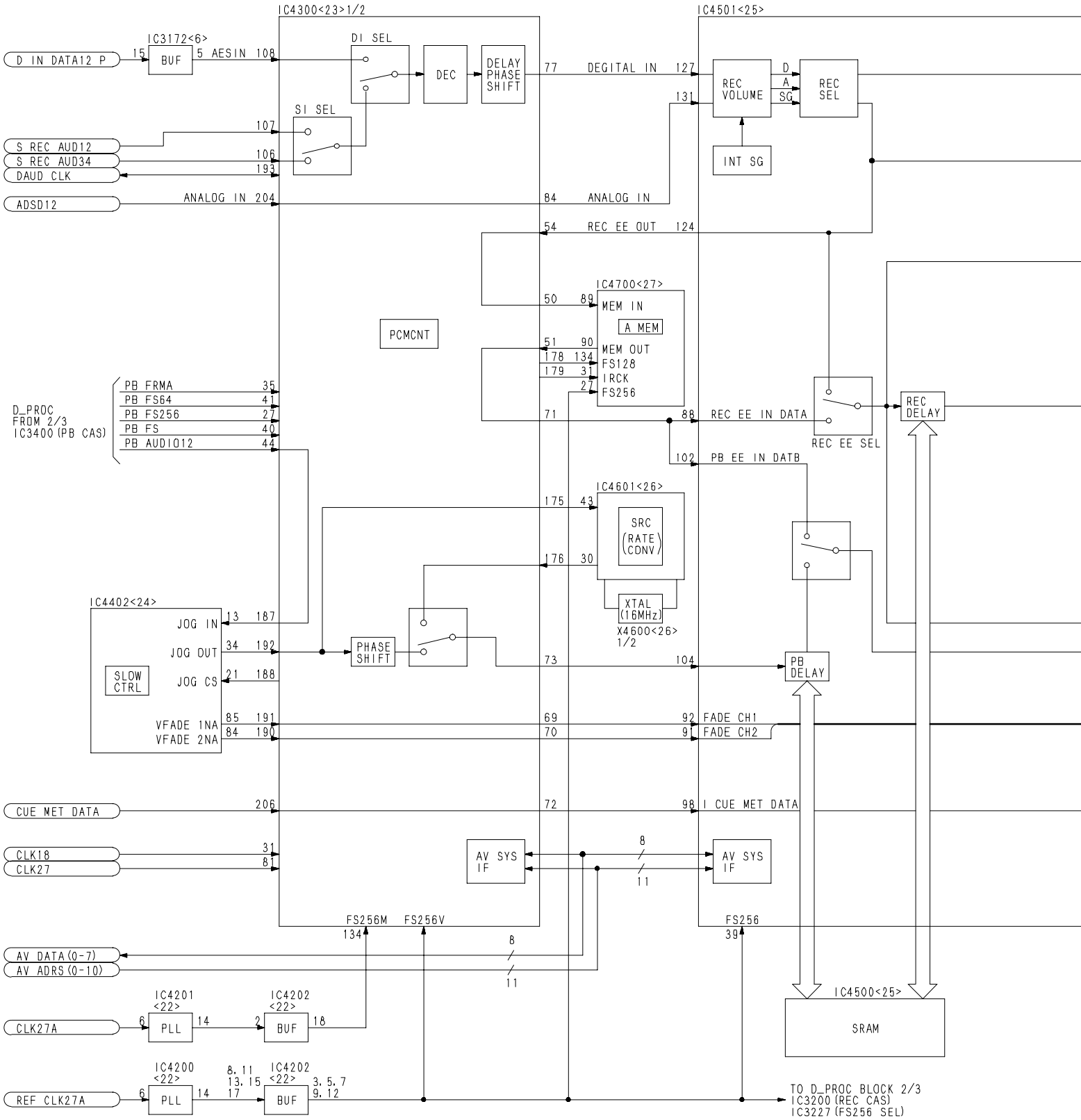
F4:D PROCESS BLOCK DIAGRAM (2/5)



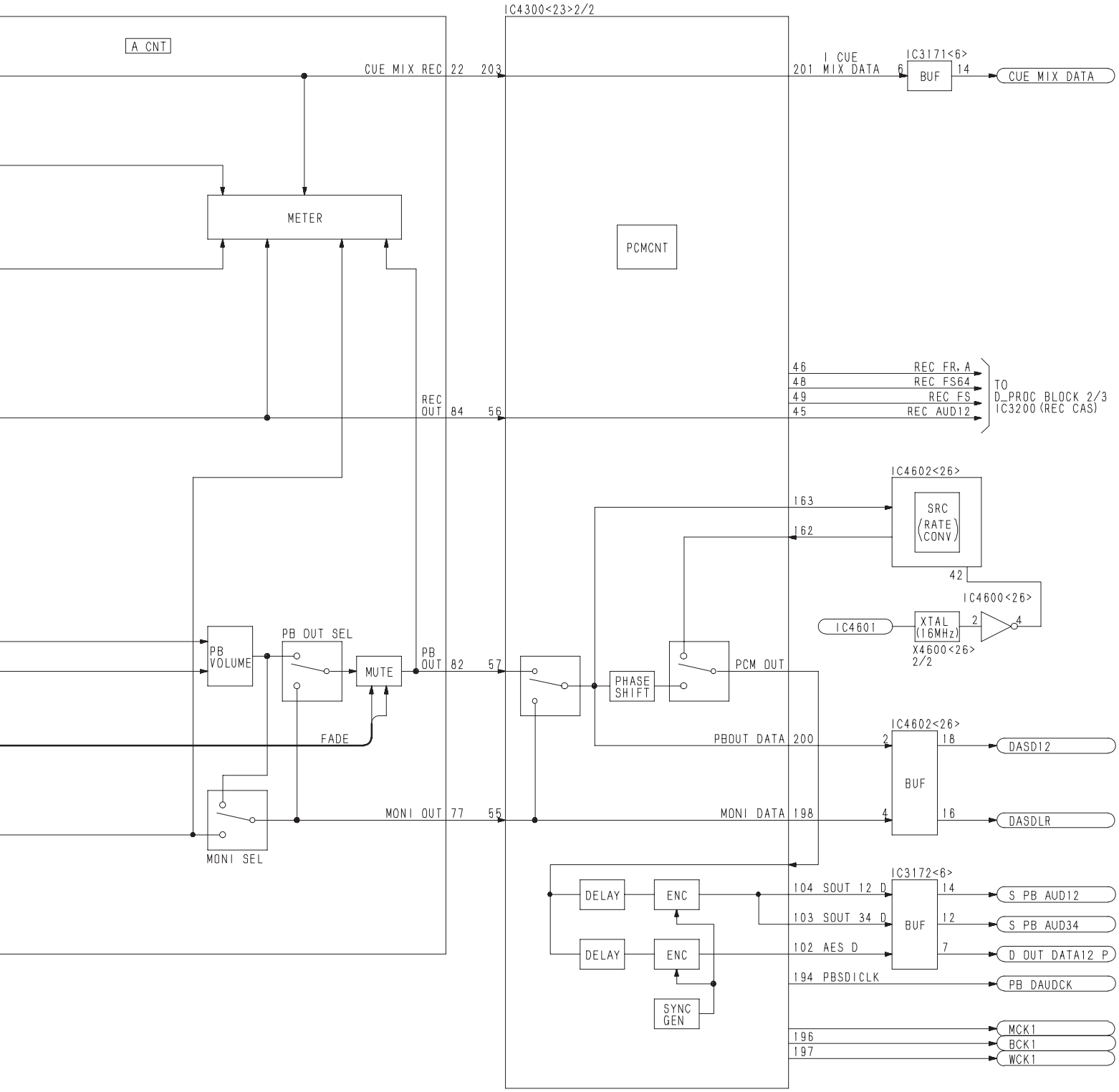
F4:D PROCESS BLOCK DIAGRAM (3/5)



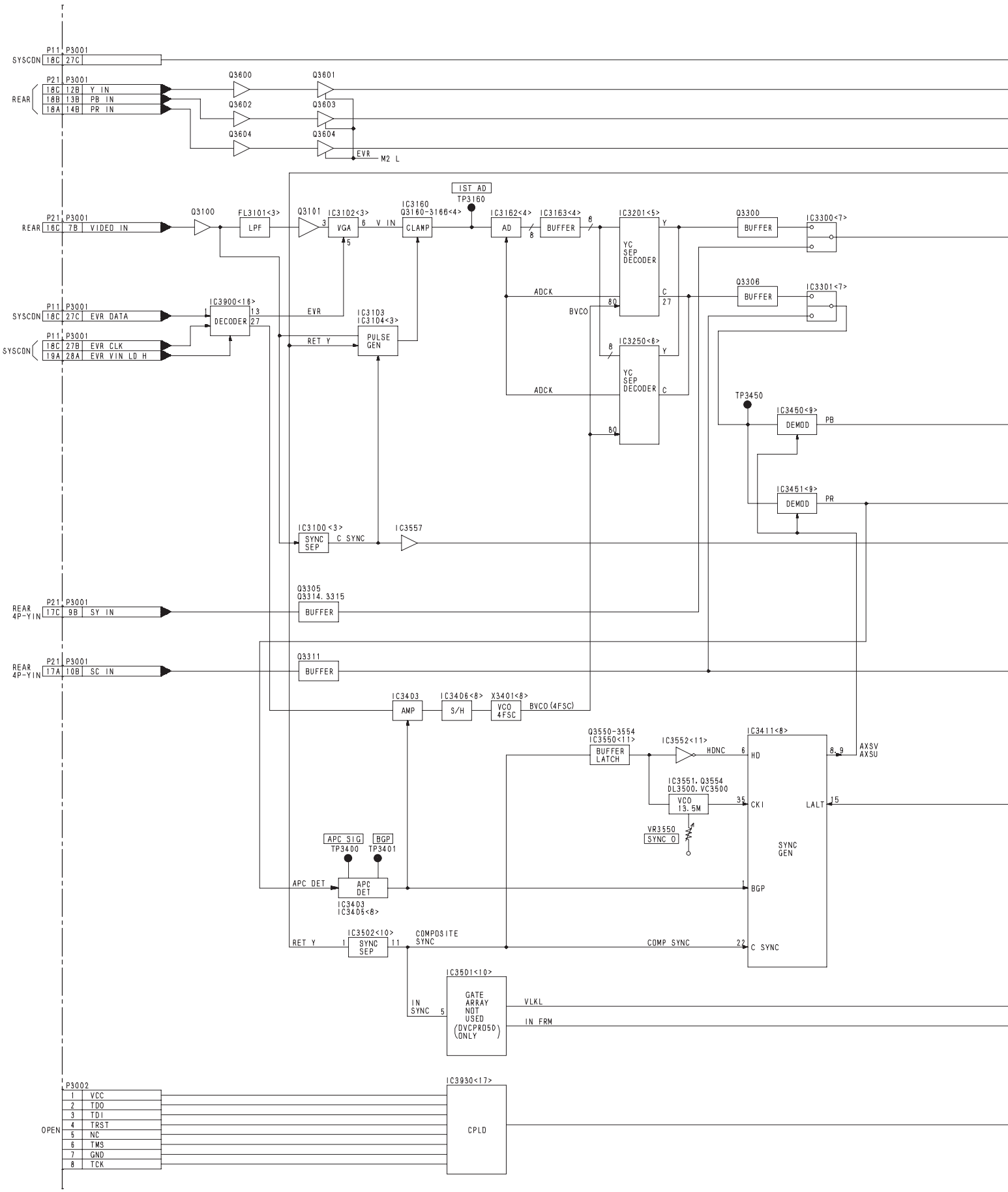
F4:D PROCESS BLOCK DIAGRAM (4/5)



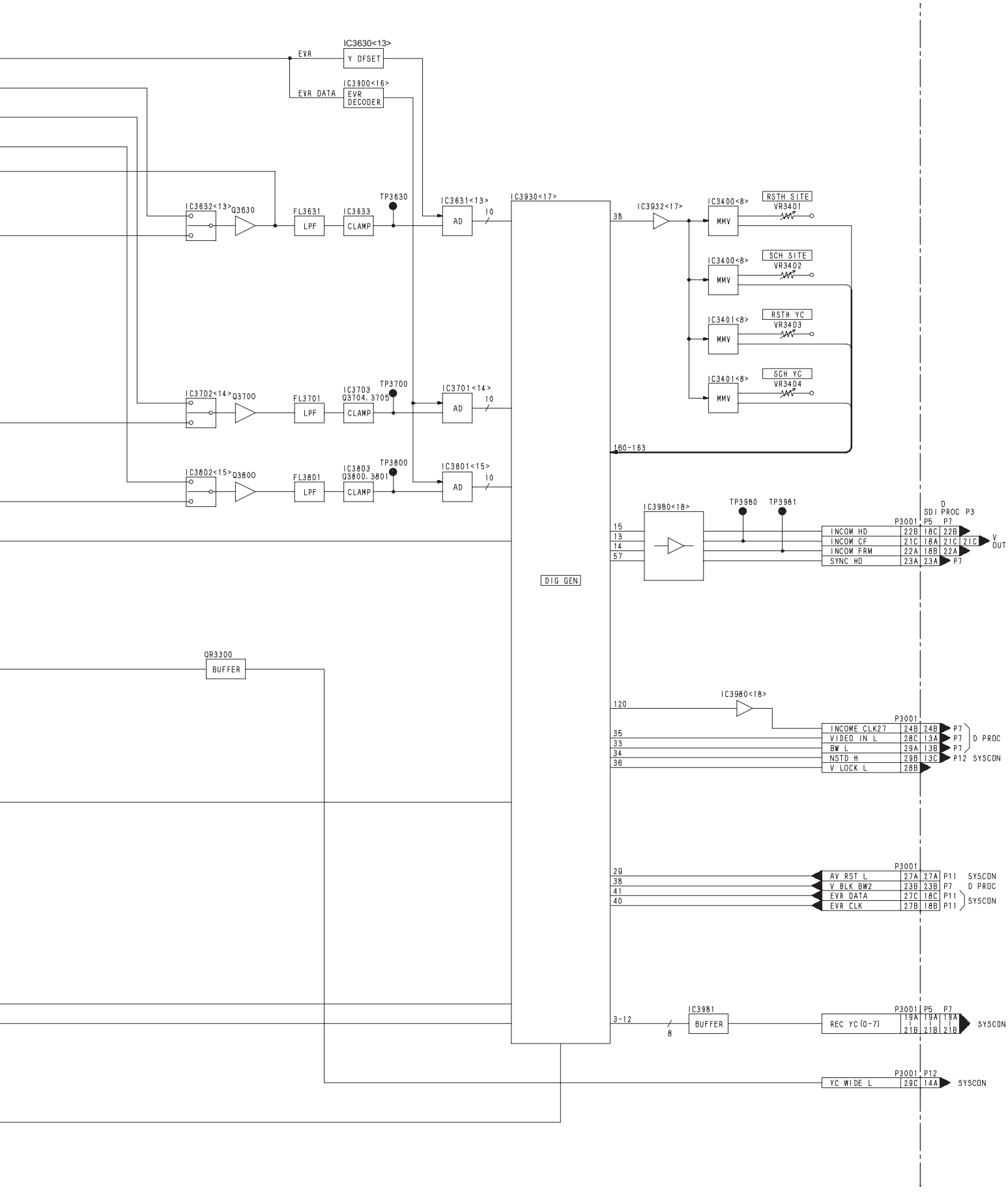
F4:D PROCESS BLOCK DIAGRAM (5/5)



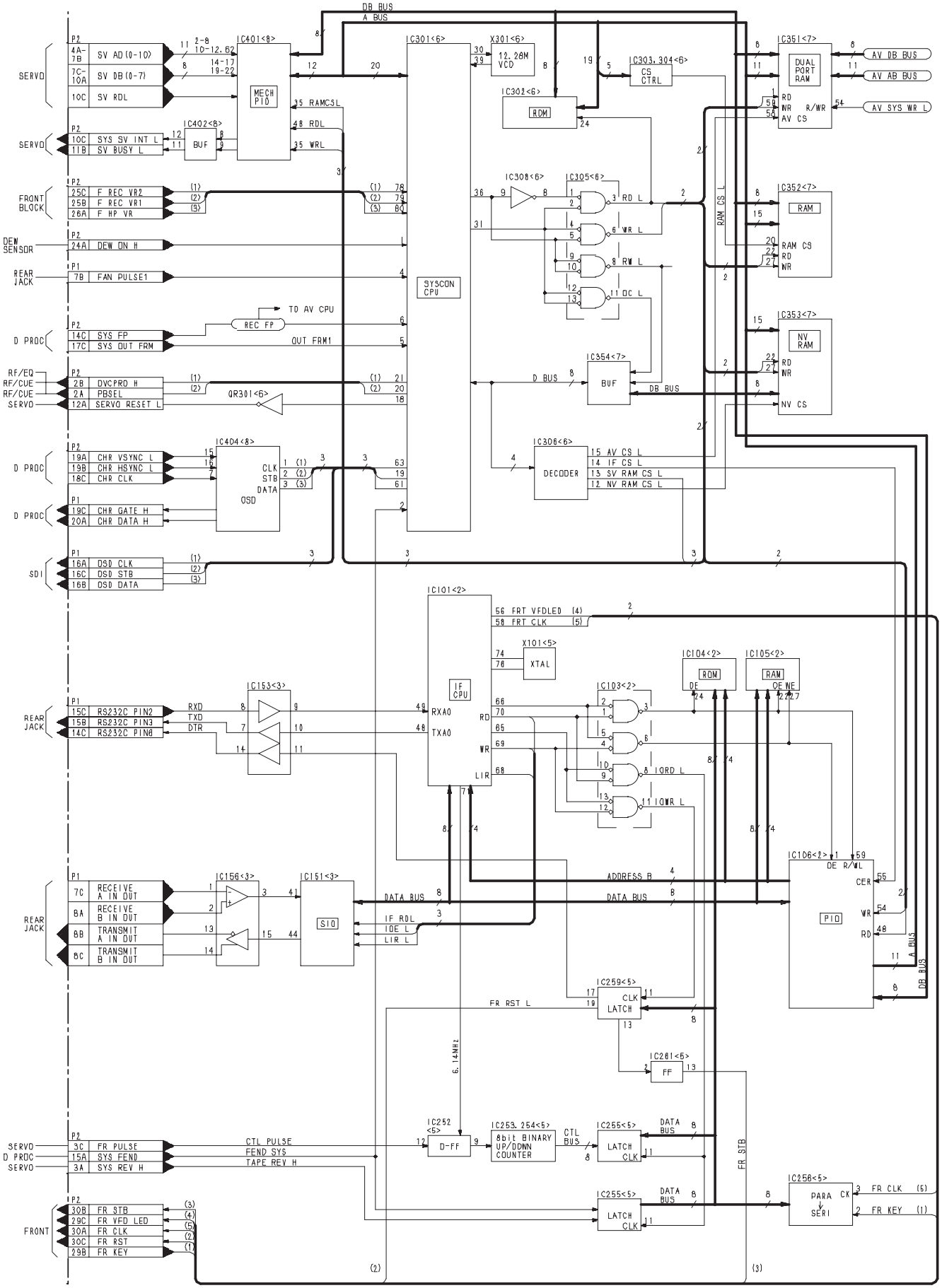
F5:VIDEO IN BLOCK DIAGRAM (1/2)



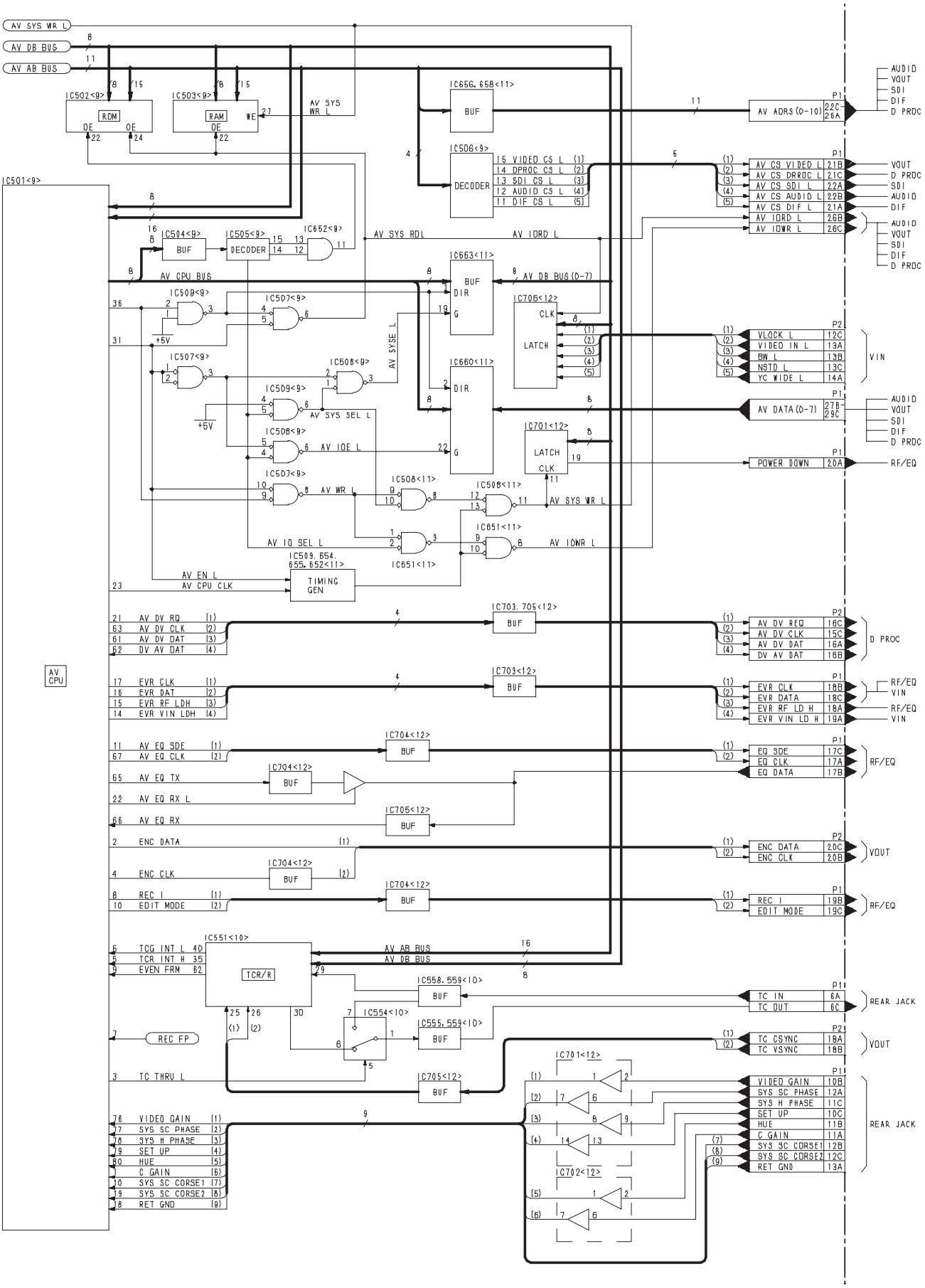
F5:VIDEO IN BLOCK DIAGRAM (2/2)



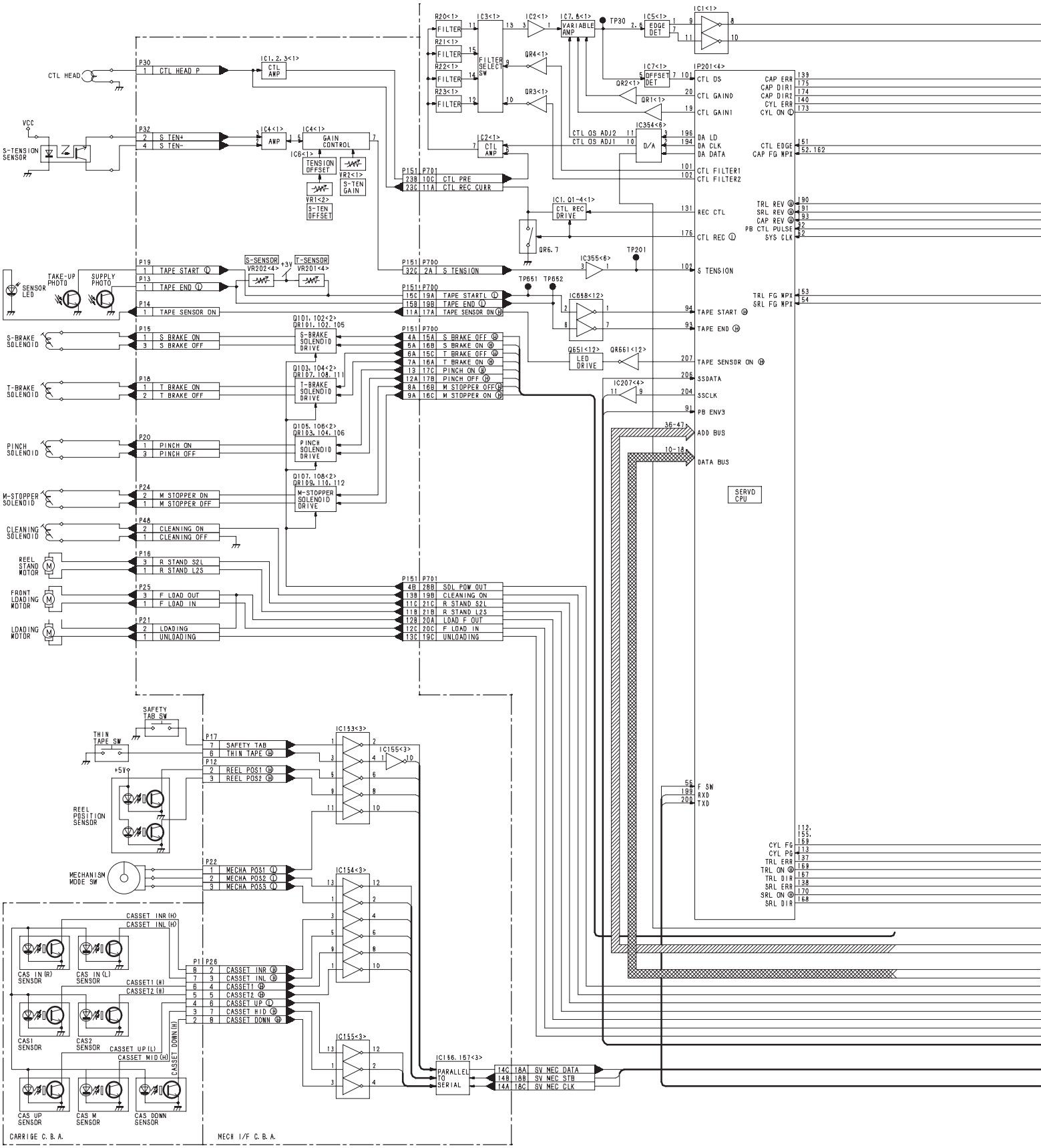
F6:SYSCON BLOCK DIAGRAM (1/2)



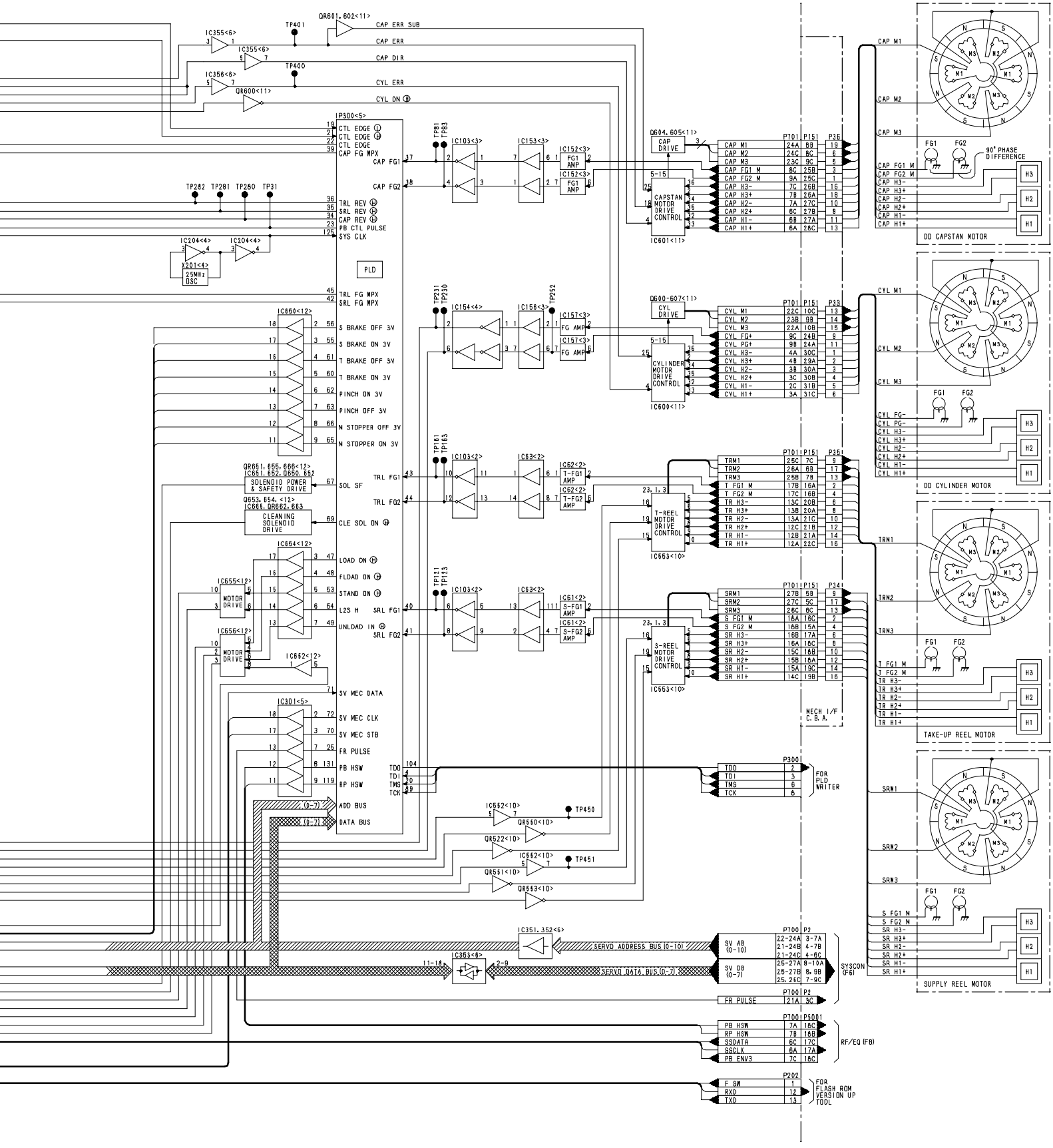
F6:SYSCON BLOCK DIAGRAM (2/2)



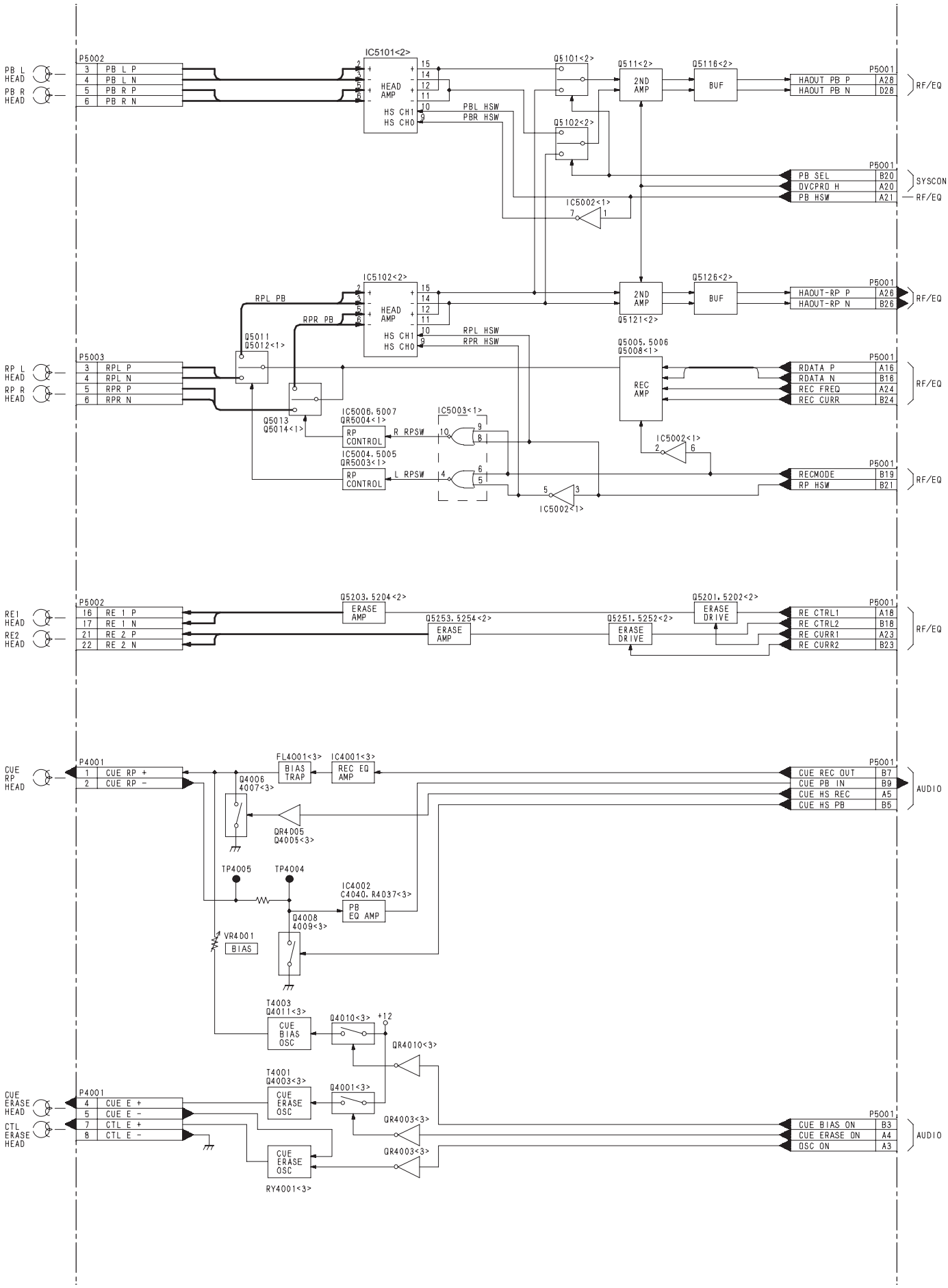
F7:SERVO BLOCK DIAGRAM (1/2)



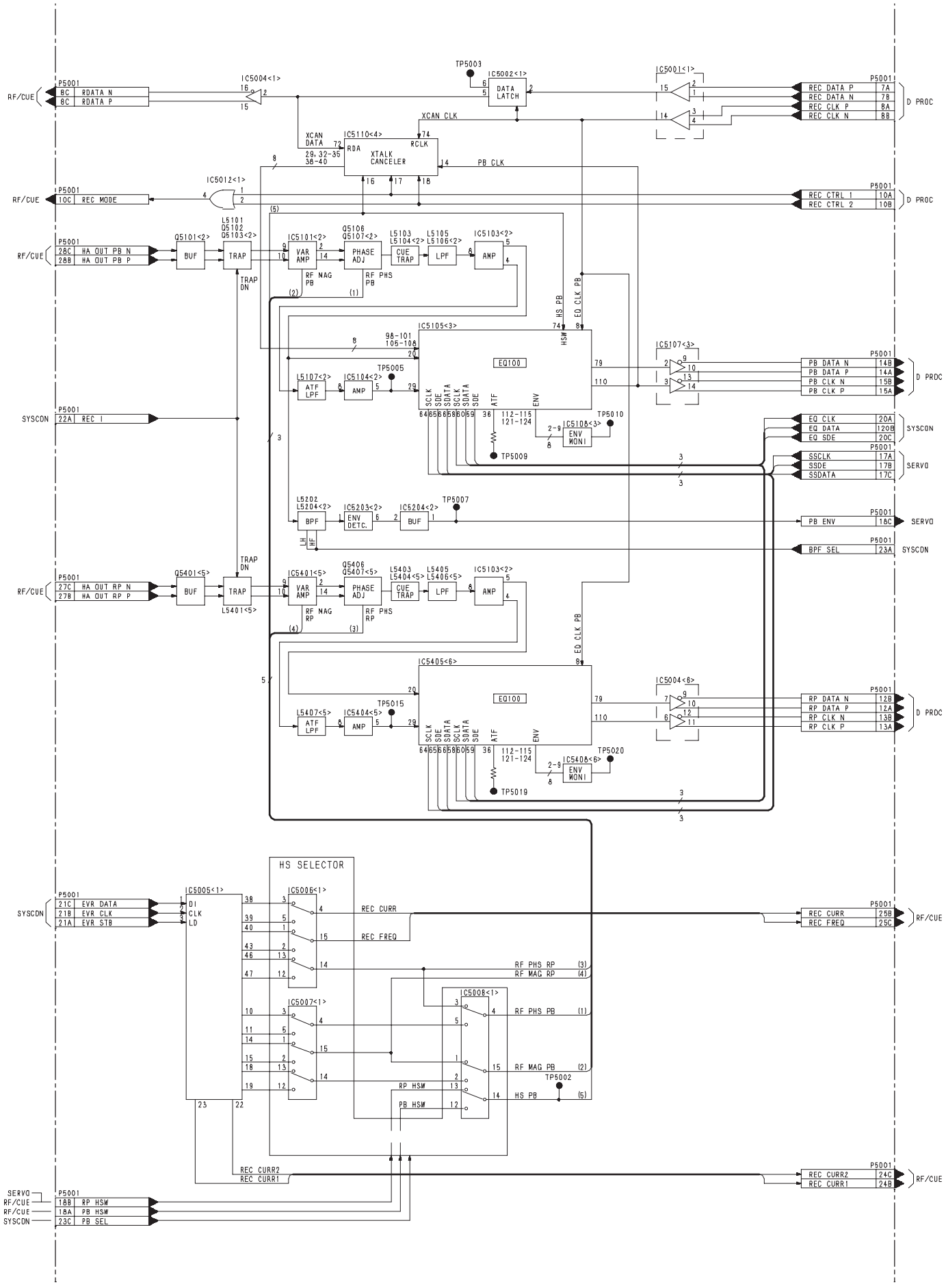
F7:SERVO BLOCK DIAGRAM (2/2)



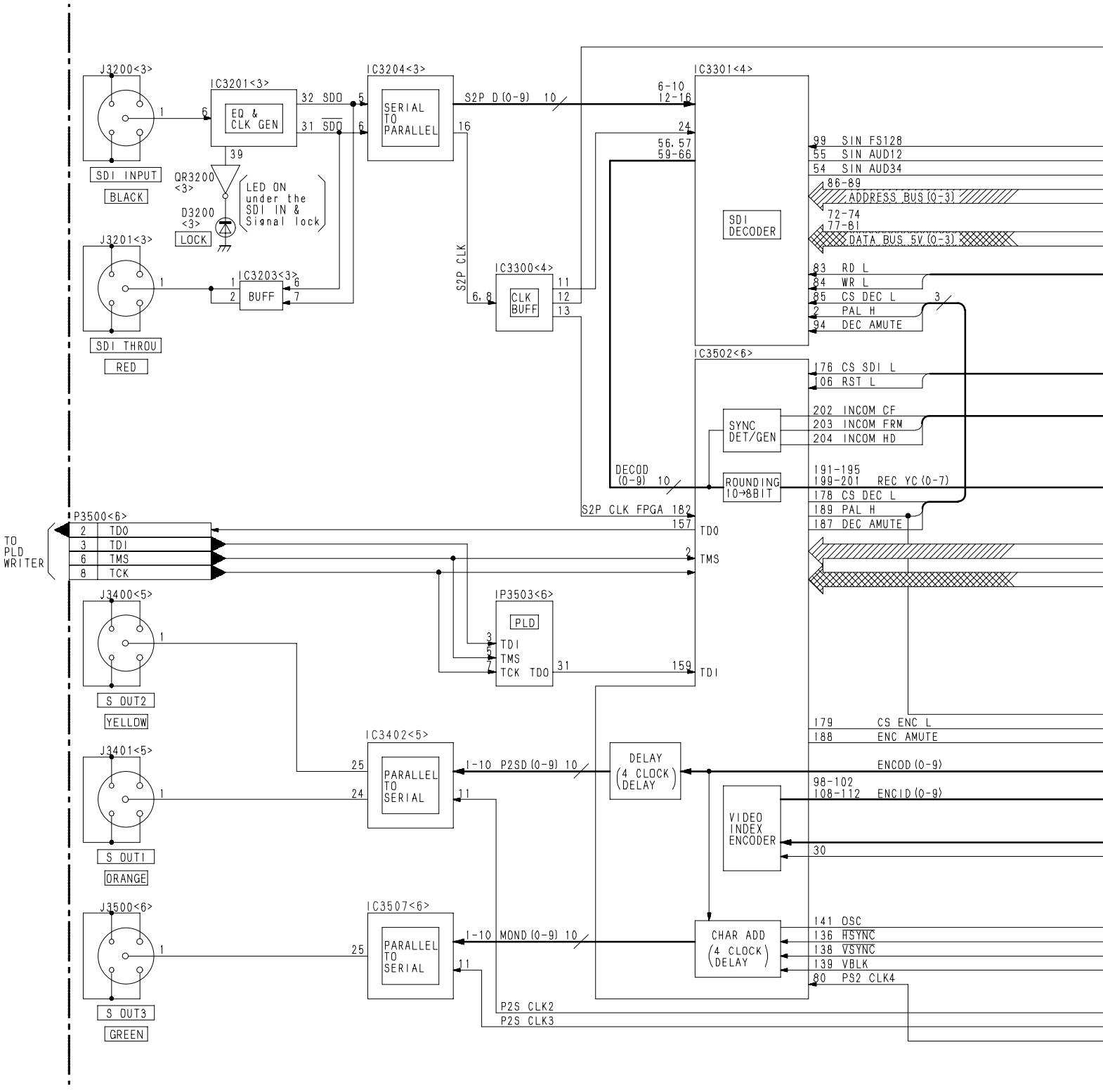
RF CUE BLOCK DIAGRAM



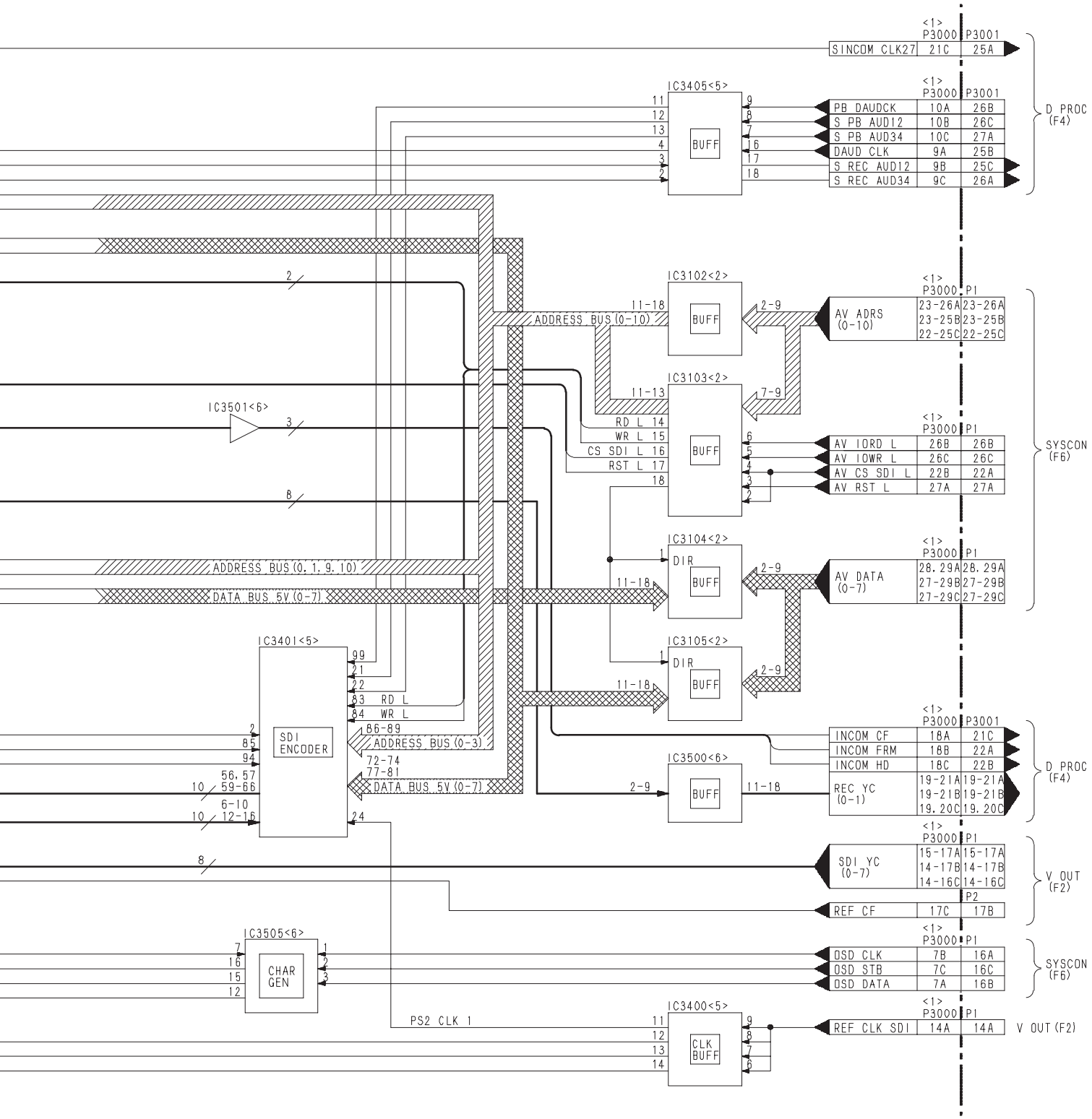
F8:RF/EQ BLOCK DIAGRAM



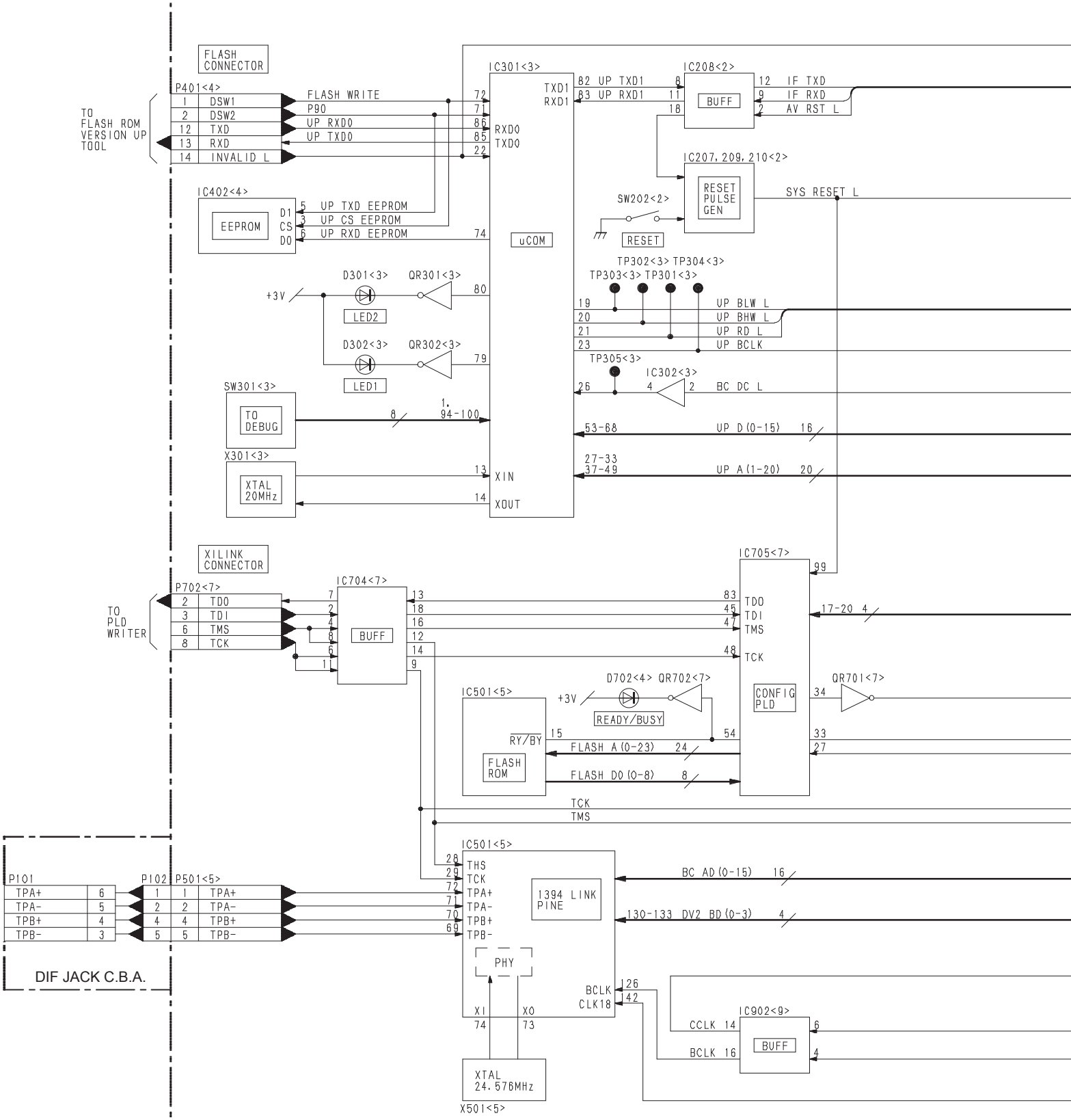
F3A:SDI BLOCK DIAGRAM (1/2) (AJ-YA455P)



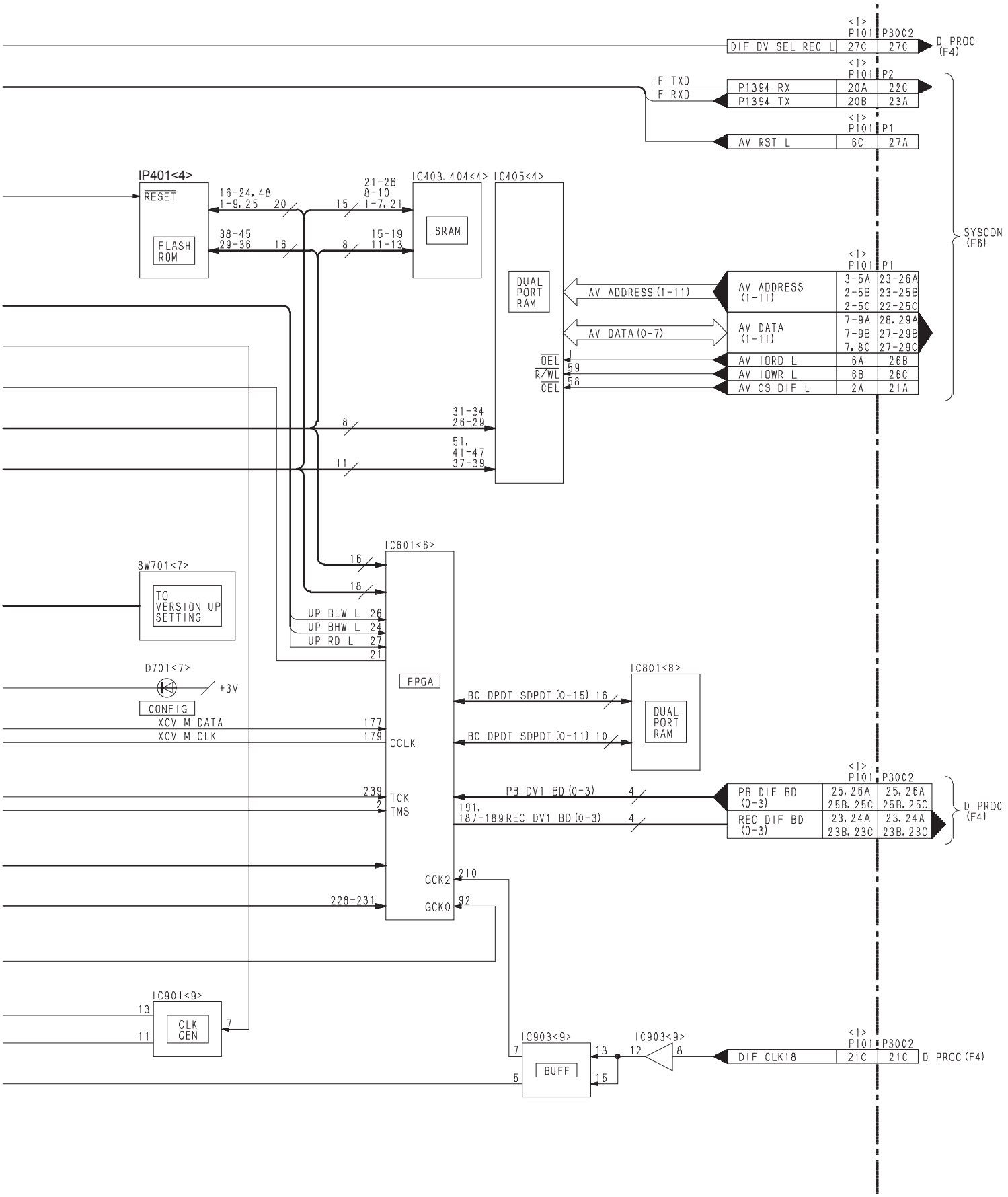
F3A:SDI BLOCK DIAGRAM (2/2) (AJ-YA455P)



F3B: DIF BLOCK DIAGRAM (1/2) (AJ-YAD455P)

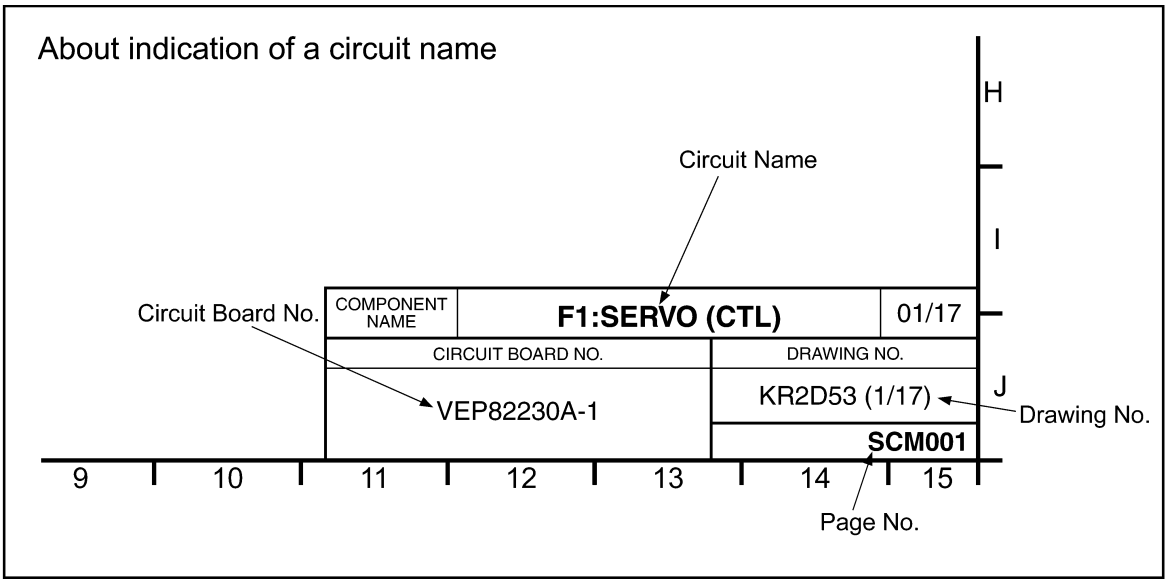


F3B: DIF BLOCK DIAGRAM (2/2) (AJ-YAD455P)



SECTION 5

SCHAMATIC DIAGRAMS



NOTE:
BE SURE TO MAKE YOUR ORDERS OF REPLACEMENT PARTS ACCORDING TO PARTS LIST, SECTION 7

CAUTION

THE ▭ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

CONTENTS

F1 : AUDIO

AUDIO (CONNECTOR) (1/9).....SCM001
AUDIO (INPUT_12) (2/9).....SCM002
AUDIO (A/D, D/A) (3/9).....SCM003
AUDIO (D/AOUT_12LR) (4/9).....SCM004
AUDIO (MIX/HP_OUT) (5/9).....SCM005
AUDIO (OUT PUT_12) (6/9).....SCM006
AUDIO (PIO) (7/9).....SCM007
AUDIO (CUE_R/P) (8/9).....SCM008
AUDIO (CUE_R/P) (9/9).....SCM009

F2 : V OUT

CONNECTOR (1/14).....SCM010
COM_BUFF (2/14).....SCM011
DIN_BUFF (3/14).....SCM012
PROC (4/14).....SCM013
DOUT_BUFF (5/14).....SCM014
DAC (6/14).....SCM015
COMPONENT_BUFF (7/14).....SCM016
YC_MIX (8/14).....SCM017
COMPOSITE_BUFF (9/14).....SCM018
SYNC_SEP (10/14).....SCM019
PLL (11/14).....SCM020
SYNC_GEN (12/14).....SCM021
INT (13/14).....SCM022
PARTS_TABLE (14/14).....SCM023

F3A : SDI (AJ-YA455P) OPTION

SDI_CONNECTOR (1/6).....SCM024
SDI_SYSIO (2/6).....SCM025
SDI_S2P (3/6).....SCM026
SDI_DECODER (4/6).....SCM027
SDI_P2S_1 (5/6).....SCM028
SDI_P2S_2 (6/6).....SCM029

F4 : D PROC

MOTHER (1/27).....SCM030
POWER (2/27).....SCM031
AVIF (3/27).....SCM032
ISP (4/27).....SCM033
IOBUF_V (5/27).....SCM034
IOBUF_A (6/27).....SCM035
PLL_VCO (7/27).....SCM036
TBC_FIFO (8/27).....SCM037
DV_IO (FPGA1) (9/27).....SCM038
CSP_CON (10/27).....SCM039
DV_PROC (11/27).....SCM040
EE_FIFO (12/27).....SCM041
REC_DV_CON (13/27).....SCM042
PB_DV_CON (14/27).....SCM043
VIDEO DATA (VITC/CC) (15/27).....SCM044
LVDS (16/27).....SCM045
VBLK_CON (17/27).....SCM046
REC_411_FLITER (18/27).....SCM047
PB_411_FILTER (19/27).....SCM048
REC_DV_MPU (20/27).....SCM049
PB_DV_MPU (21/27).....SCM050
PLL (22/27).....SCM051
PCMCNT (23/27).....SCM052
SLOW (24/27).....SCM053
ACNT (25/27).....SCM054
SRC (26/27).....SCM055
AMEM (27/27).....SCM056

CSP SUB

CONNECTOR (1/6).....SCM057
REC VIOLA (2/6).....SCM058
REC LUPIN (3/6).....SCM059
PB VIOLA (4/6).....SCM060
PB LUPIN (5/6).....SCM061
RF_PLL (6/6).....SCM062

F5 : V IN

V_IN (CONNECTOR) (1/18).....SCM063
V_IN (POWER) (2/18).....SCM064
V_IN (COMP_IN) (3/18).....SCM065
V_IN (1st_AD) (4/18).....SCM066
V_IN (SDEC) (5/18).....SCM067
V_IN (SDEC2) (6/18).....SCM068
V_IN (DECBUF) (7/18).....SCM069
V_IN (4fsc_PLL) (8/18).....SCM070
V_IN (CDEM) (9/18).....SCM071
V_IN (SYNC_SEP) (10/18).....SCM072
V_IN (135M_PLL) (11/18).....SCM073
V_IN (M2B_SEL) (12/18).....SCM074
V_IN (2nd_AD_Y) (13/18).....SCM075
V_IN (2nd_AD_PB) (14/18).....SCM076
V_IN (2nd_AD_PR) (15/18).....SCM077
V_IN (EVR) (16/18).....SCM078
V_IN (DIG_GEN) (17/18).....SCM079
V_IN (OUTBUFF) (18/18).....SCM080

F6 : SYSCON

SYSCON (1/13).....SCM081
SYSCON (IF) (2/13).....SCM082
SYSCON (IF) (3/13).....SCM083
SYSCON (IF) (4/13).....SCM084
SYSCON (IF) (5/13).....SCM085
SYSCON (SYS) (6/13).....SCM086
SYSCON (SYS) (7/13).....SCM087
SYSCON (SYS) (8/13).....SCM088
SYSCON (AV) (8/13).....SCM089
SYSCON (AV) (9/13).....SCM090
SYSCON (AV) (10/13).....SCM091
SYSCON (AV) (11/13).....SCM092
SYSCON (VSI****) (12/13).....SCM093

F7 : SERVO

SERVO (CTL) (1/14).....SCM094
SERVO (REEL_FG) (2/14).....SCM095
SERVO (CA_CY_FG) (3/14).....SCM096
SERVO (CPU) (4/14).....SCM097
SERVO (PLD) (5/14).....SCM098
SERVO (CPU_IF) (6/14).....SCM099

SERVO (POWER) (7/14) SCM100
SERVO (SW2) (8/14) SCM101
SERVO (SW1) (9/14) SCM102
SERVO (RL_DRV) (10/14) SCM103
SERVO (CA_CY_DRV) (11/14) SCM104
SERVO (M_IF) (12/14) SCM105
SERVO (13/14) SCM106
SERVO (SOFT) (14/14) SCM107

RF CUE

RF/CUE (1/4) SCM108
RF/CUE (2/4) SCM109
RF/CUE (3/4) SCM110
RF/CUE (4/4) SCM111

F8 : RF EQ

RF/EQ (1/7) SCM112
RF/EQ (2/7) SCM113
RF/EQ (3/7) SCM114
RF/EQ (4/7) SCM115
RF/EQ (5/7) SCM116
RF/EQ (6/7) SCM117
RF/EQ (7/7) SCM118

MOTHER

MOTHER (1/10) SCM119
MOTHER (2/10) SCM120
MOTHER (3/10) SCM121
MOTHER (4/10) SCM122
MOTHER (5/10) SCM123
MOTHER (6/10) SCM124
MOTHER (7/10) SCM125
MOTHER (8/10) SCM126
MOTHER (9/10) SCM127
MOTHER (10/10) SCM128

MECHA IF

MECHA_IF (1/4) SCM129
MECHA_IF (2/4) SCM130
MECHA_IF (3/4) SCM131
MECHA_IF (4/4) SCM132

MECHA IF2

MECHA_IF2 (1/1) SCM133

POWER1

POWER1 (1/2) SCM134
POWER1 (2/2) SCM135

POWER2

POWER2 (1/1) SCM136

AV JACK

AV_JACK (CONNECTOR) (1/5) SCM137
AV_JACK (BNC I/O) (2/5) SCM138
AV_JACK (AUDIO I/O) (3/5) SCM139
AV_JACK (AES I/O) (4/5) SCM140
AV_JACK (AES OUT) (5/5) SCM141

DV uCOM

DV u COM (1/1) SCM142

FRONT

FRONT (KEY & LED) (1/3) SCM143
FRONT (VFD) (2/3) SCM144
FRONT(VR, CONECTOR) (3/3) SCM145

HP

HEAD PHONE (1/1) SCM146

EJECT

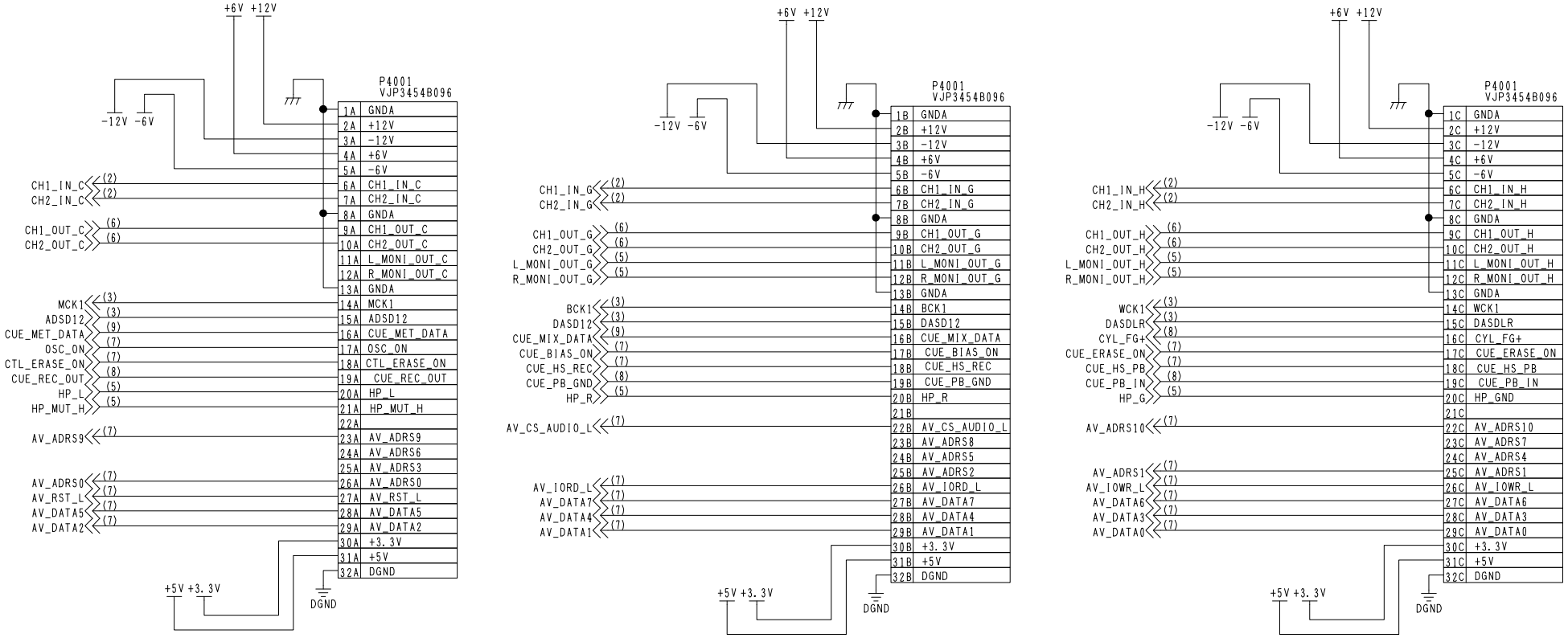
EJECT (1/1) SCM147

DIF JACK

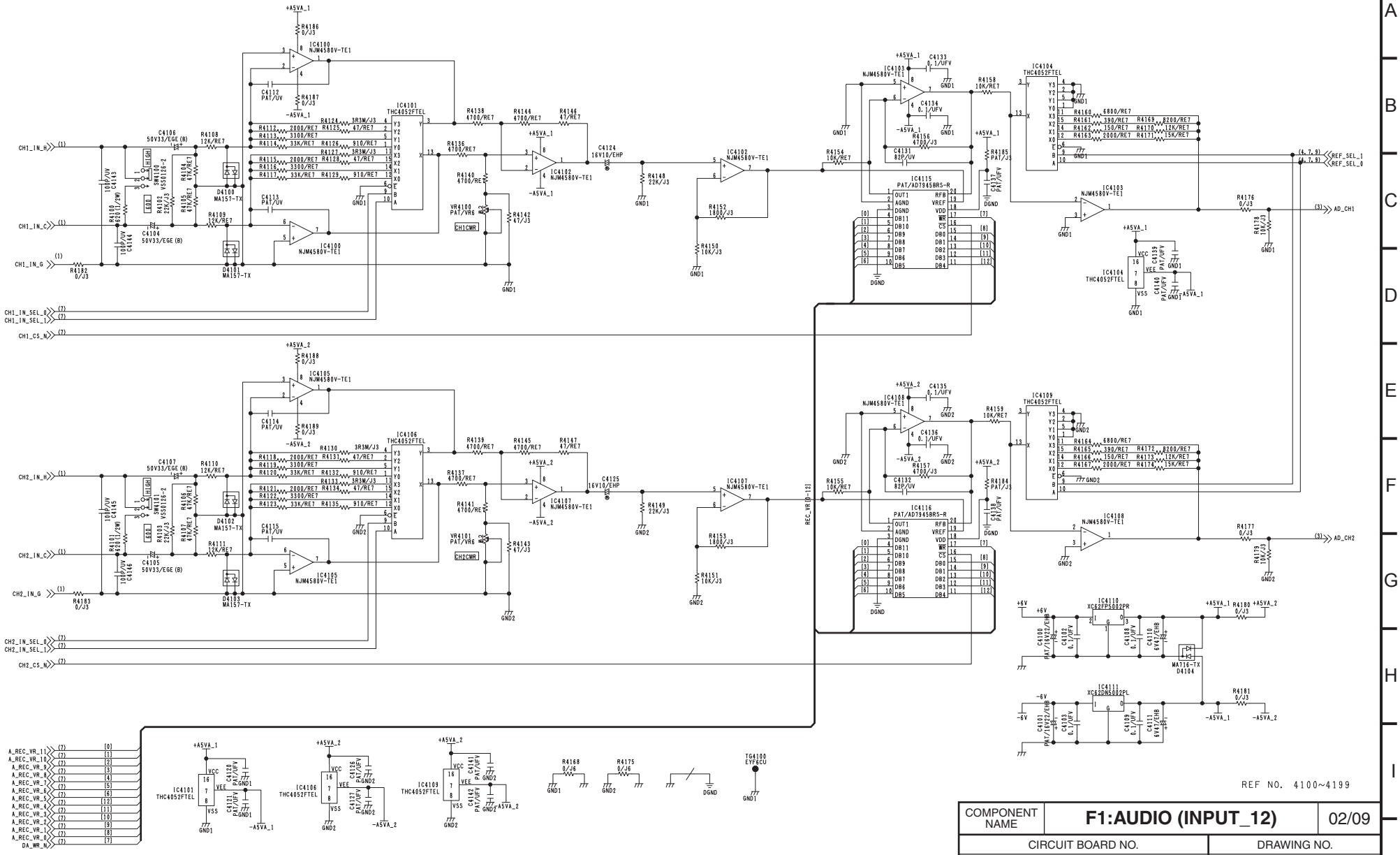
DIF JACK (1394 JACK) (1/1) SCM148

F3B : DIF (AJ-YAD455P) OPTION

DIF (MOTHER) (1/9) SCM149
DIF (POWER BUFFER) (2/9) SCM150
DIF (u COM) (3/9) SCM151
DIF (u COM MEMORY) (4/9) SCM152
DIF (PINE) (5/9) SCM153
DIF (FPGA) (6/9) SCM154
DIF (FPGA CONFIG) (7/9) SCM155
DIF (FPGA DRAM) (8/9) SCM156
DIF (CLKGEN) (9/9) SCM157

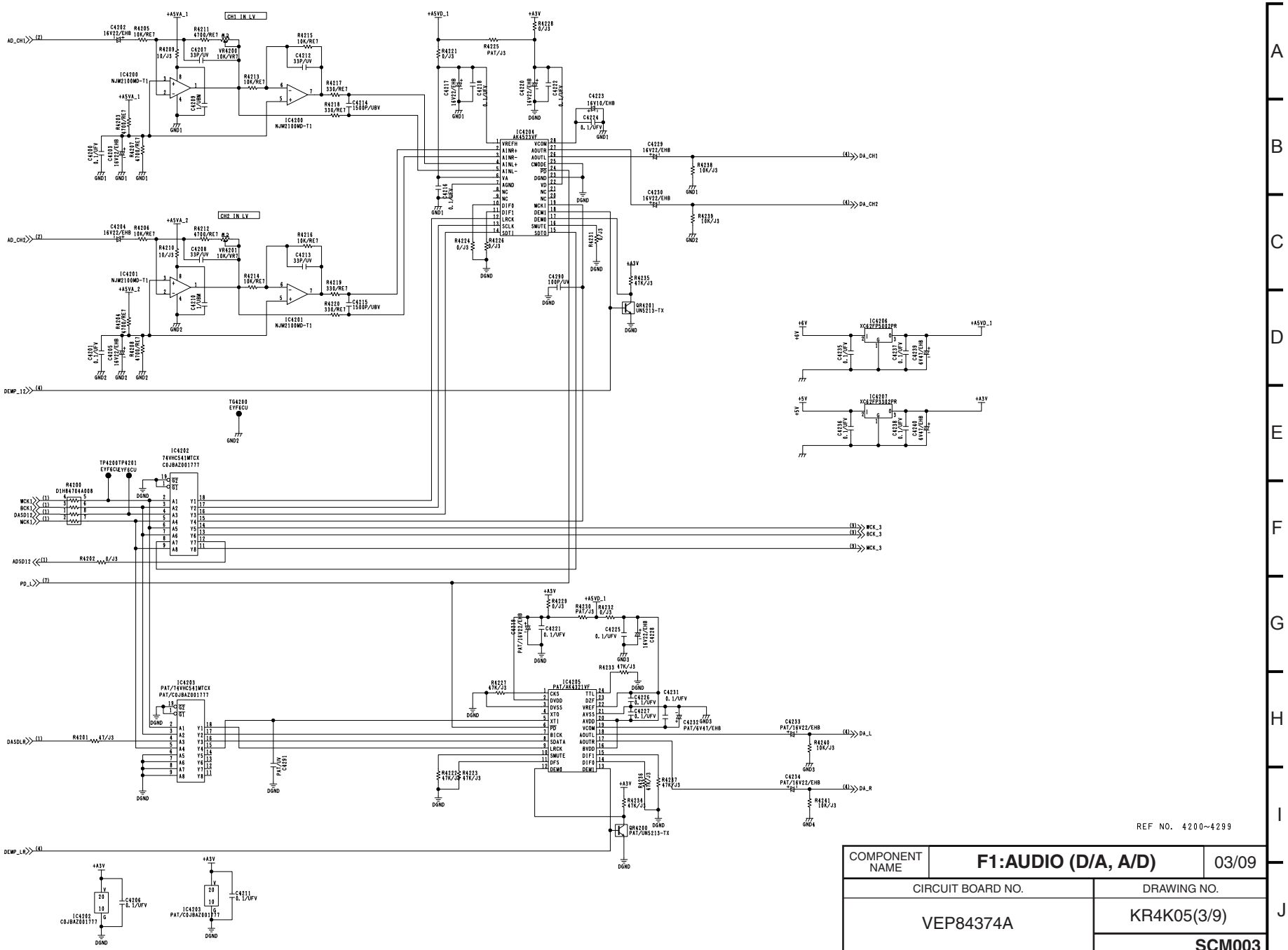


COMPONENT NAME	F1:AUDIO(CONNECTOR)	01/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP84374A		KR4K05 (1/9)
		SCM001



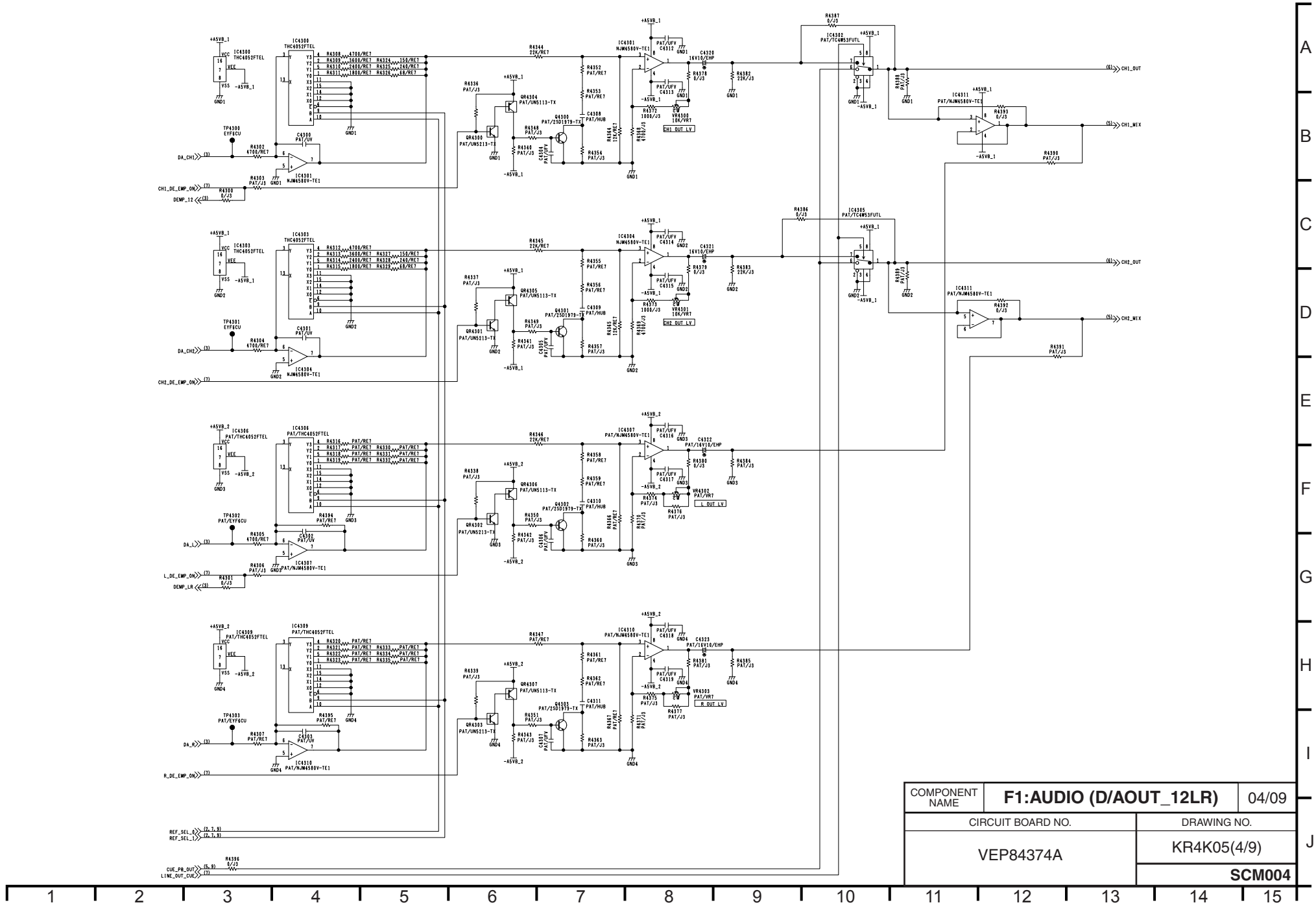
REF NO. 4100~4199

COMPONENT NAME	F1:AUDIO (INPUT_12)	02/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP84374A		KR4K05 (2/9)
		SCM002

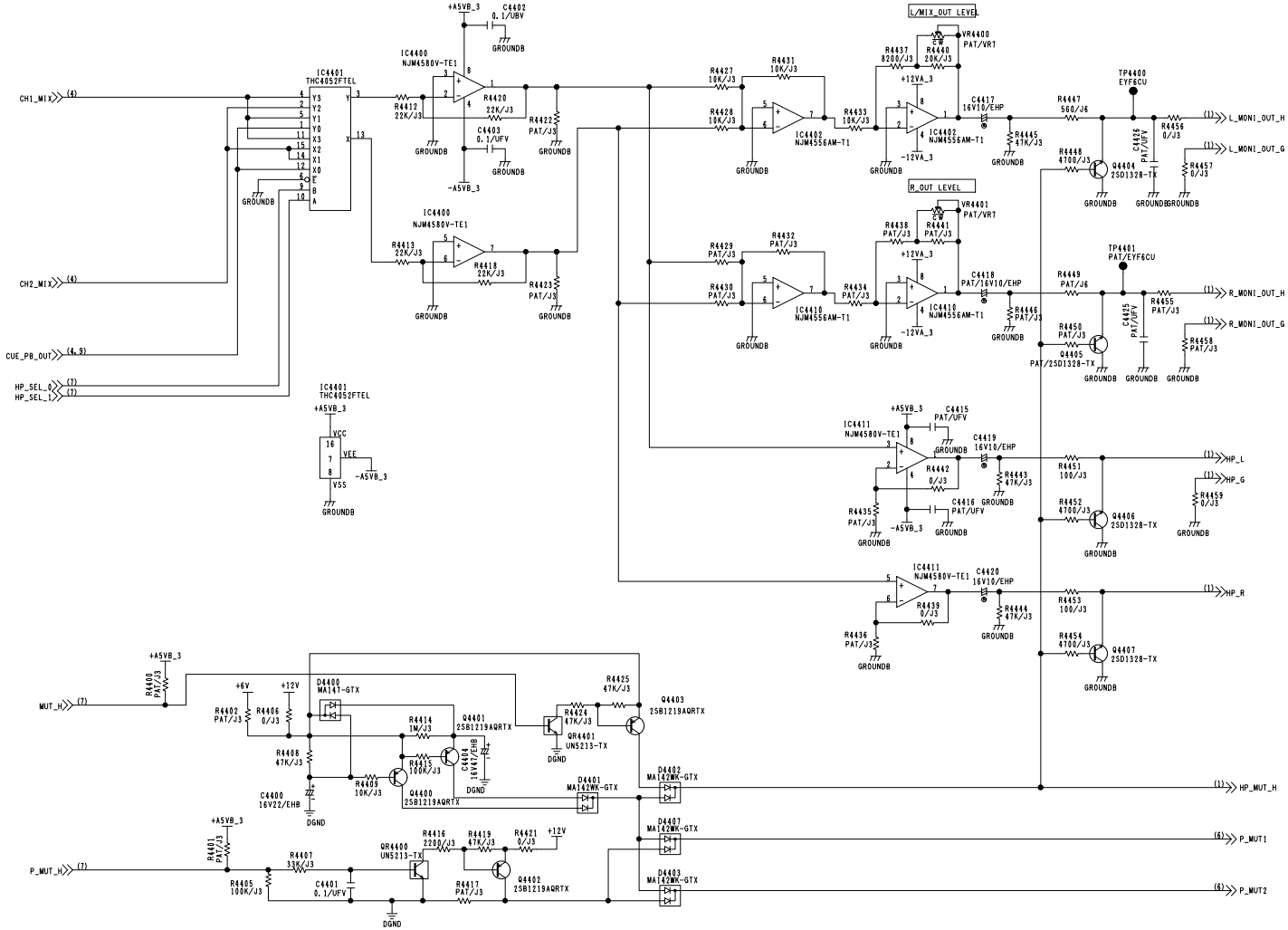


REF NO. 4200~4299

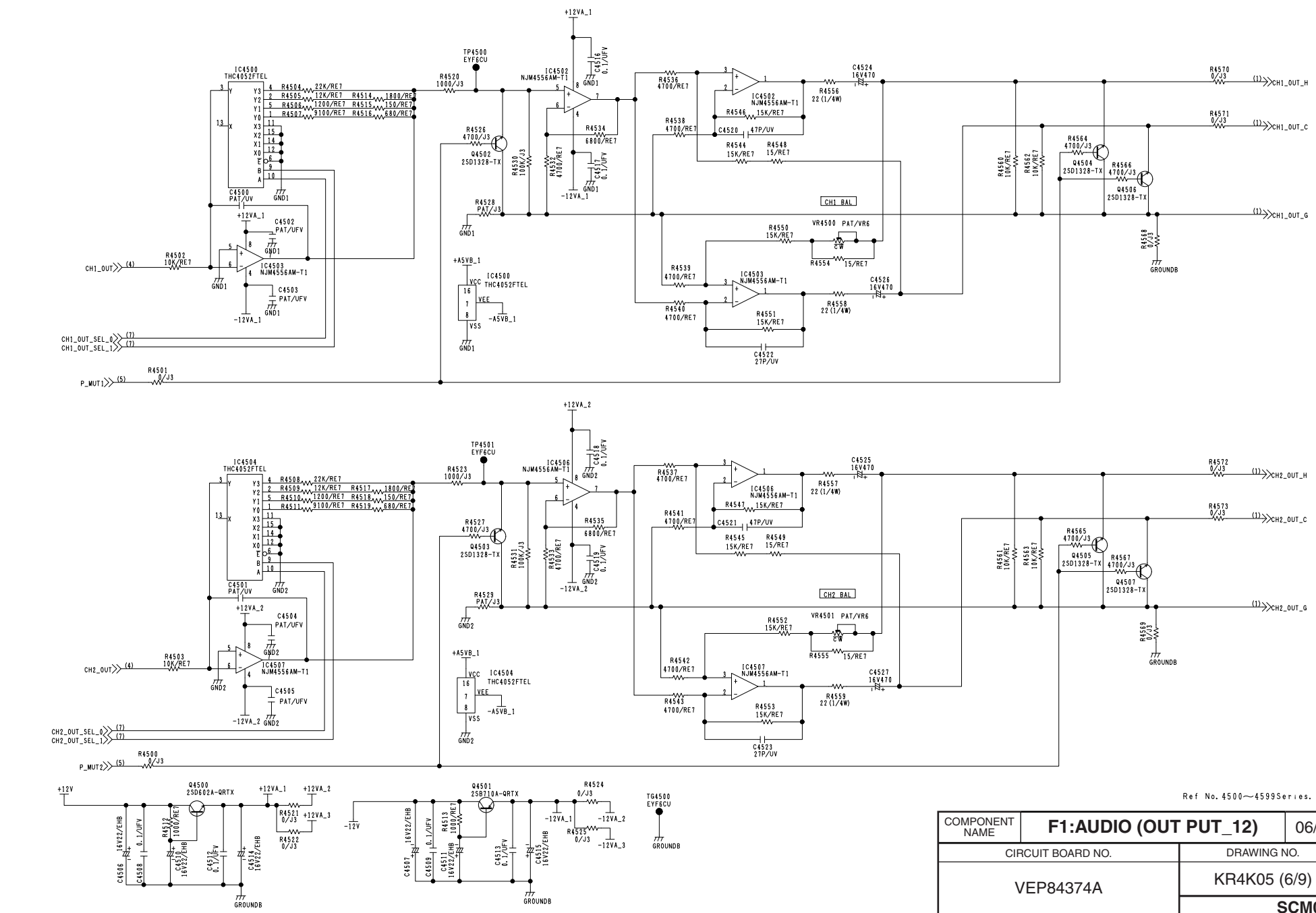
COMPONENT NAME	F1:AUDIO (D/A, A/D)	03/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP84374A		KR4K05(3/9)
		SCM003



COMPONENT NAME	F1:AUDIO (D/AOUT_12LR)	04/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP84374A		KR4K05(4/9)
		SCM004

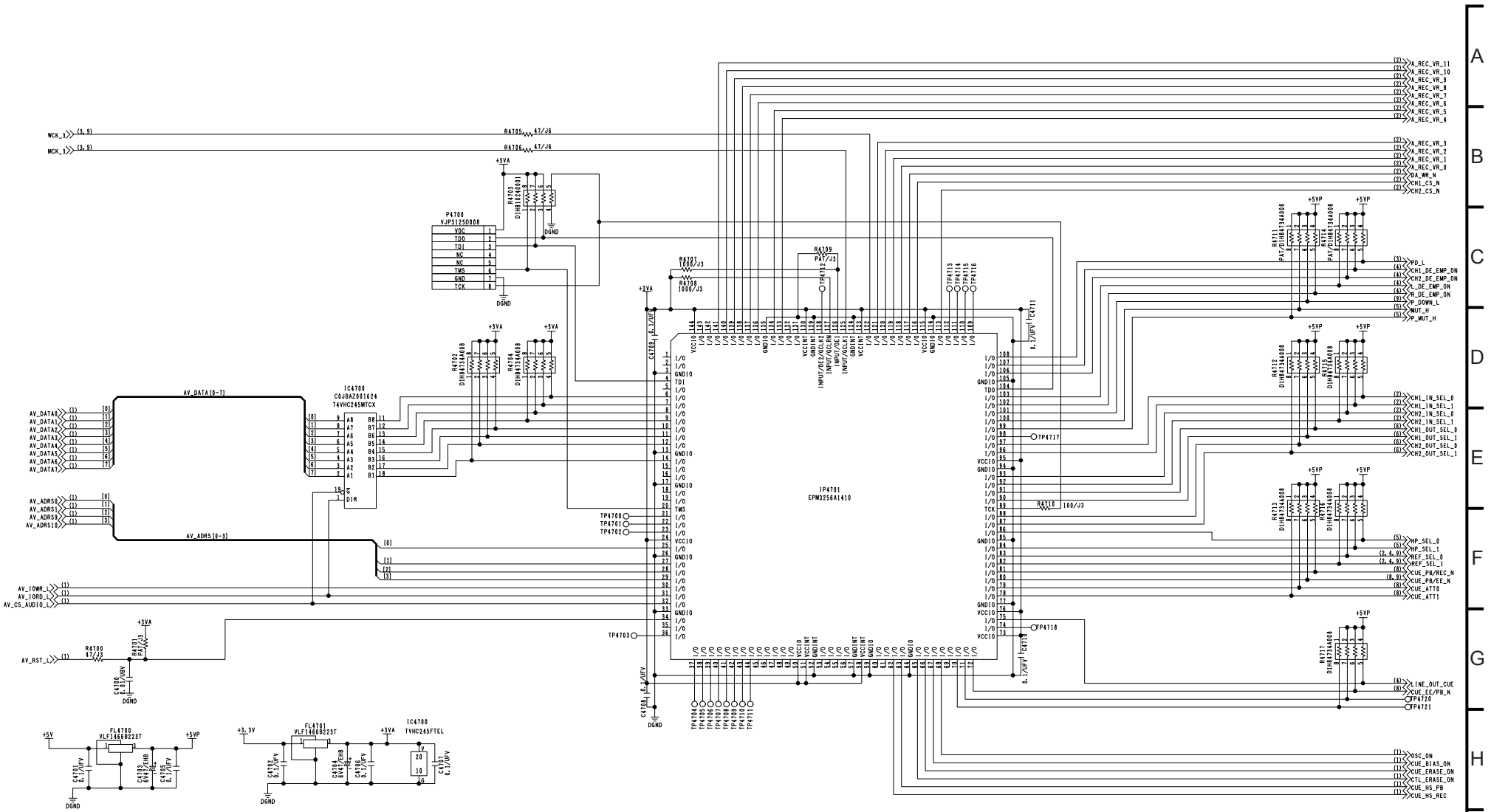


COMPONENT NAME	**F1:AUDIO (MIX/HP_OUT)**	05/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84374A	KR4K05 (5/9)	
	SCM005	

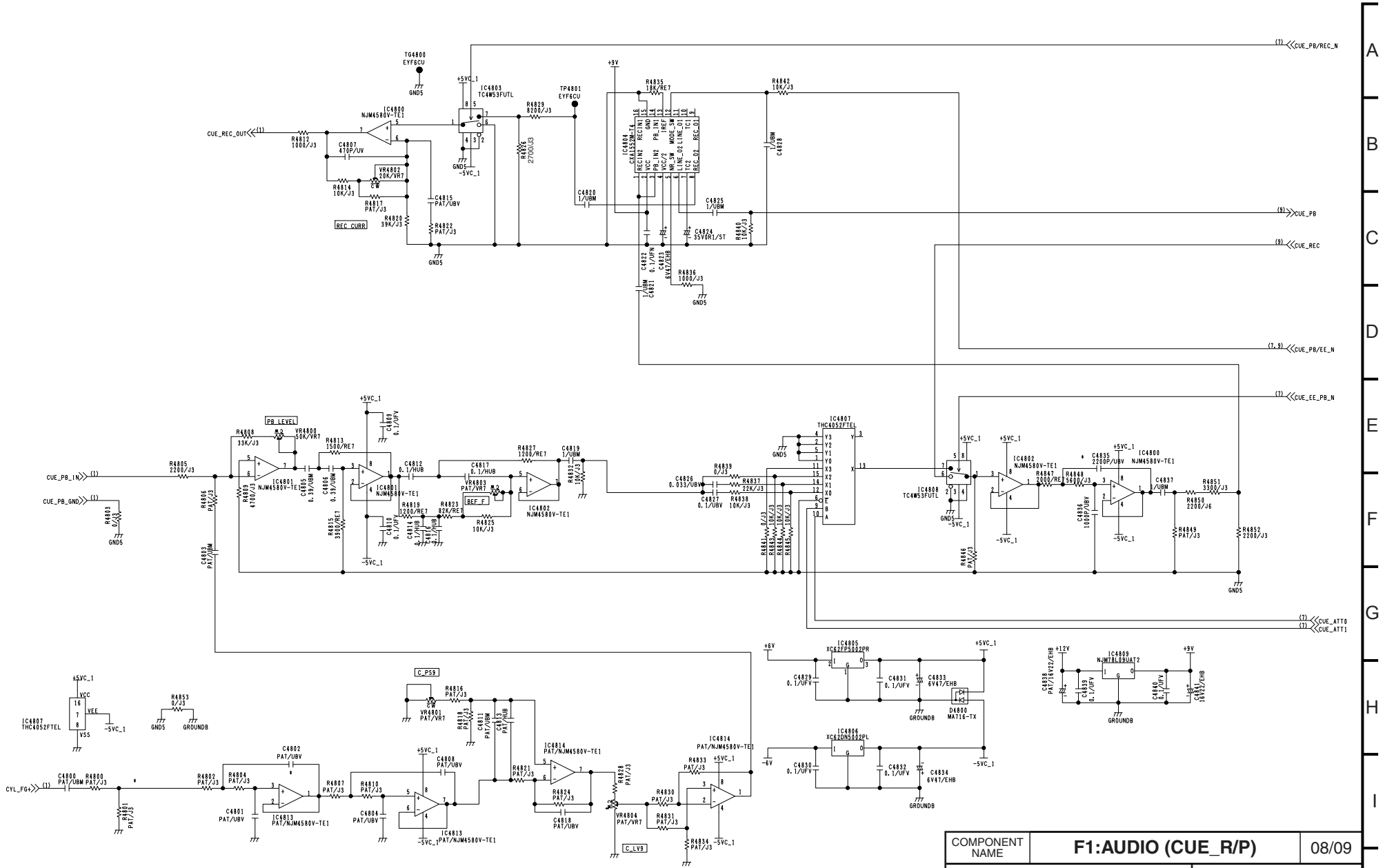


Ref No. 4500～4599Series.

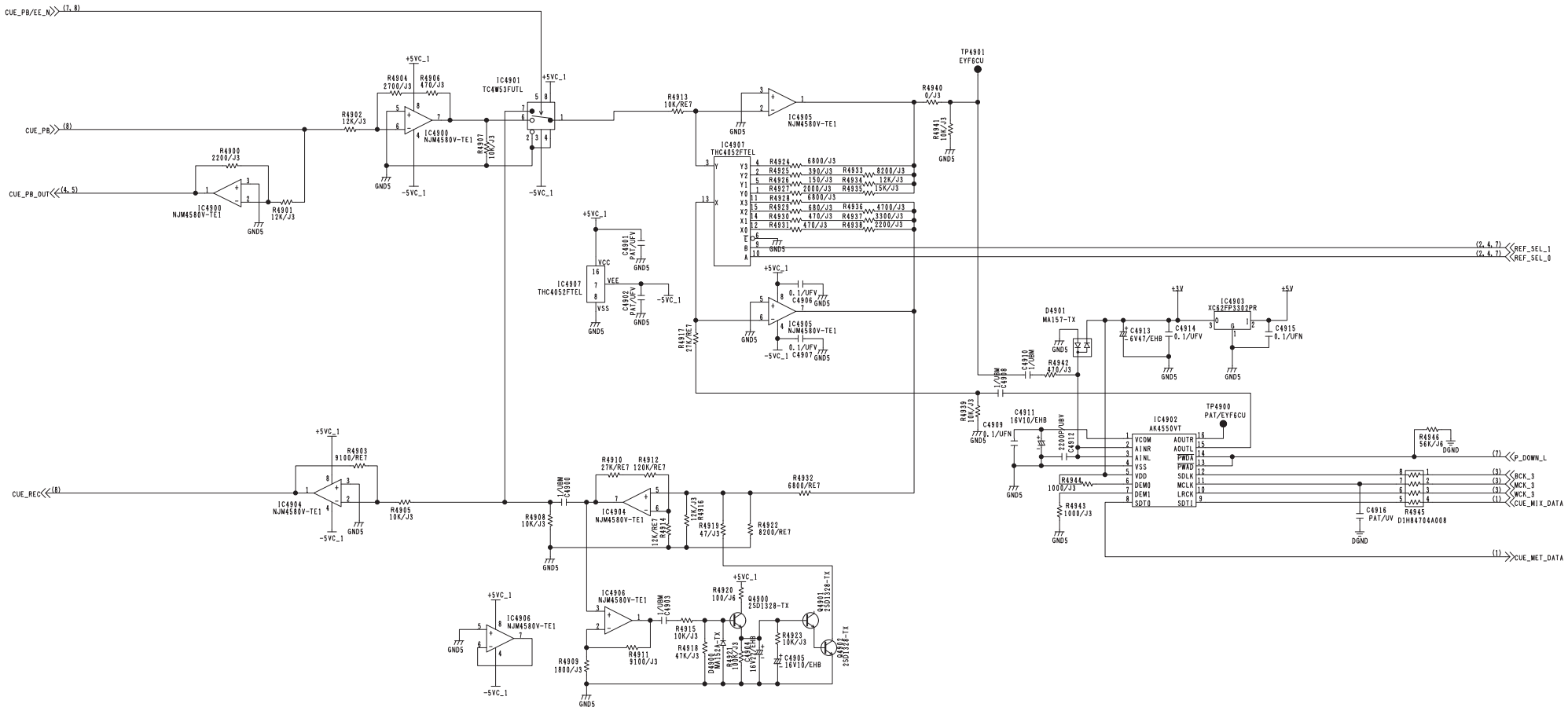
COMPONENT NAME	F1:AUDIO (OUT PUT_12)	06/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP84374A		KR4K05 (6/9)
		SCM006



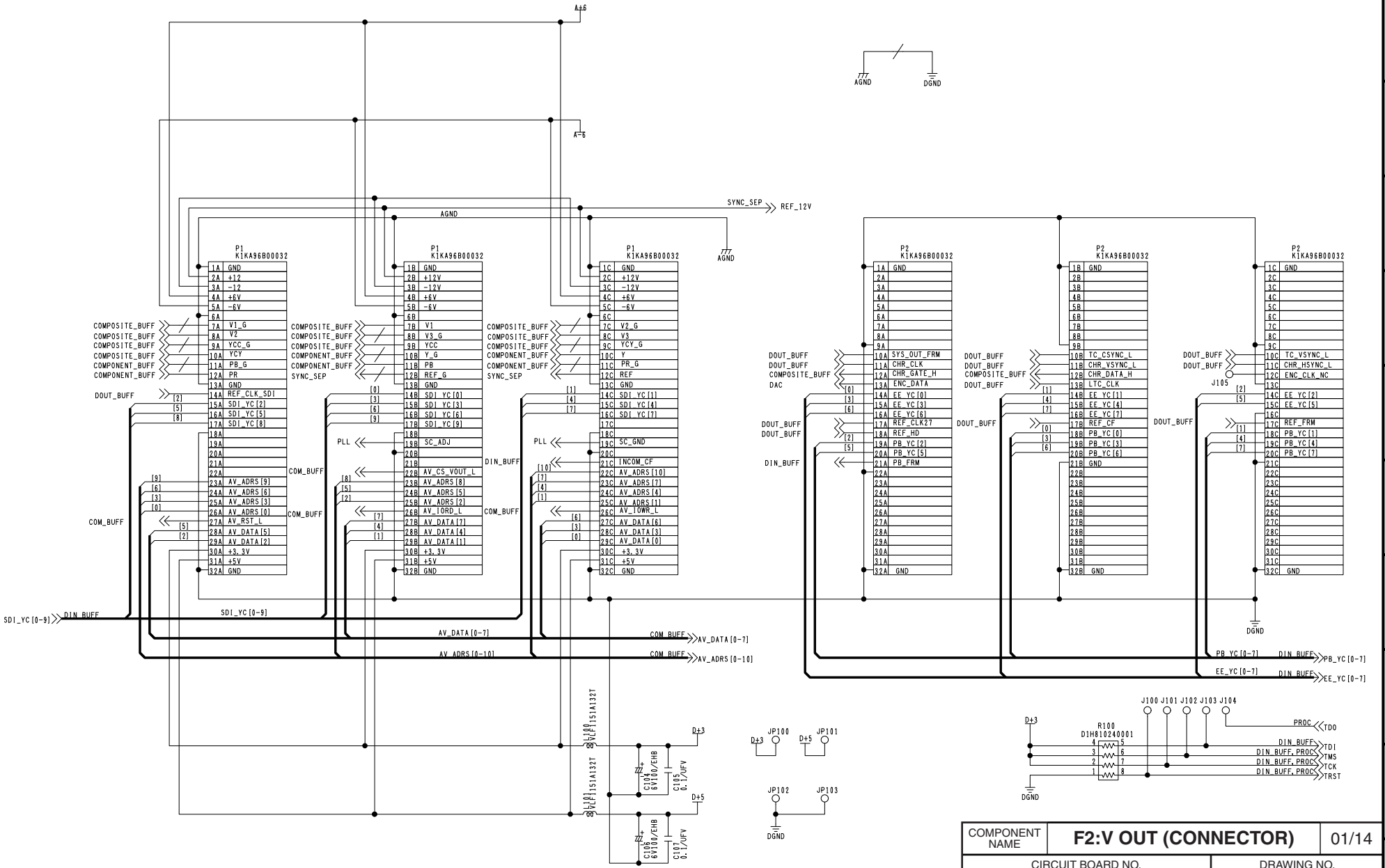
COMPONENT NAME	F1:AUDIO (PIO)	07/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP84374A		KR4K05 (7/9)
		SCM007



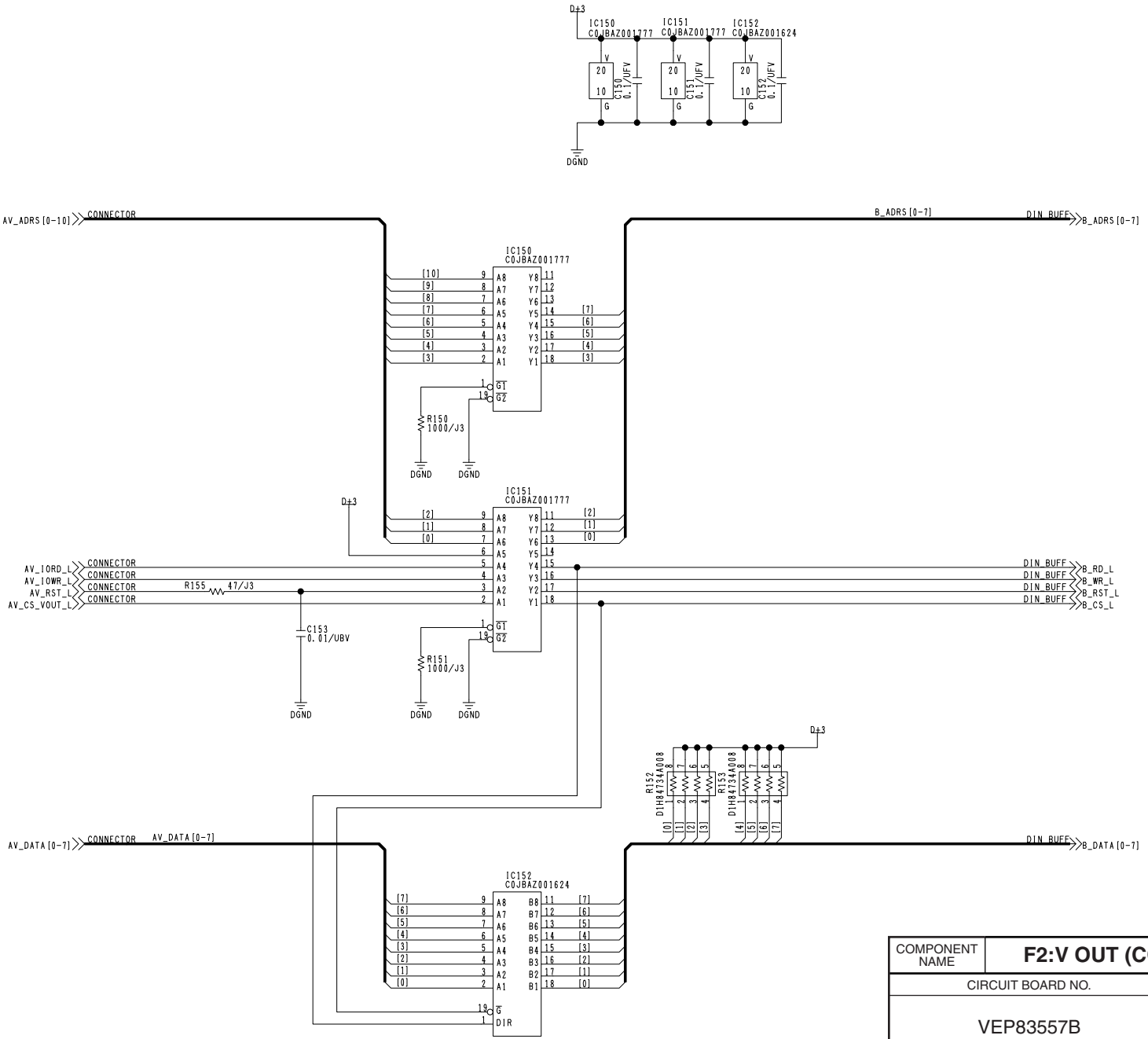
COMPONENT NAME	F1:AUDIO (CUE_R/P)	08/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP84374A		KR4K05 (8/9)
		SCM008



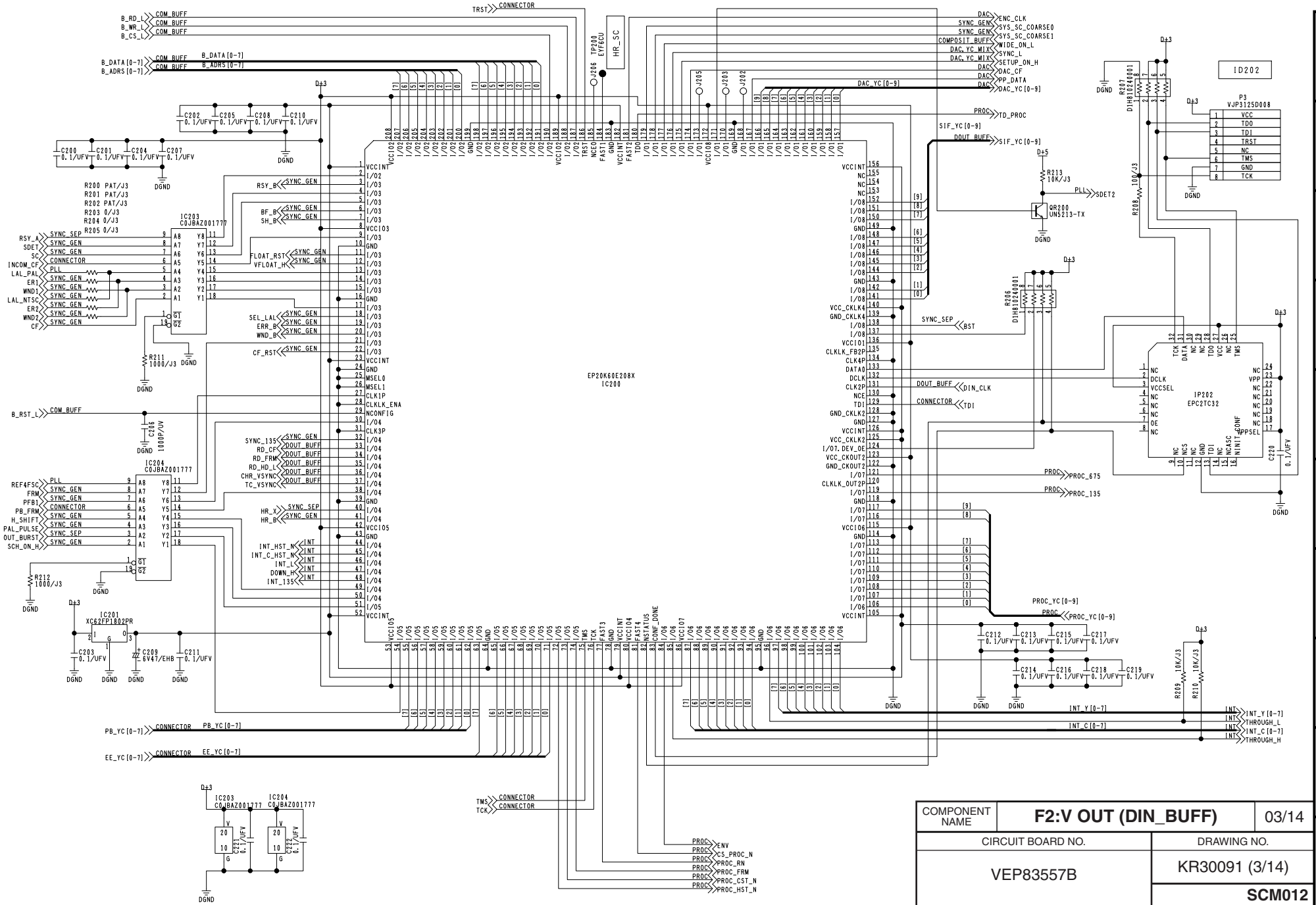
COMPONENT NAME	**F1:AUDIO (CUE_INPUT)**	09/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP84374A	KR4K05 (9/9)	
	SCM009	



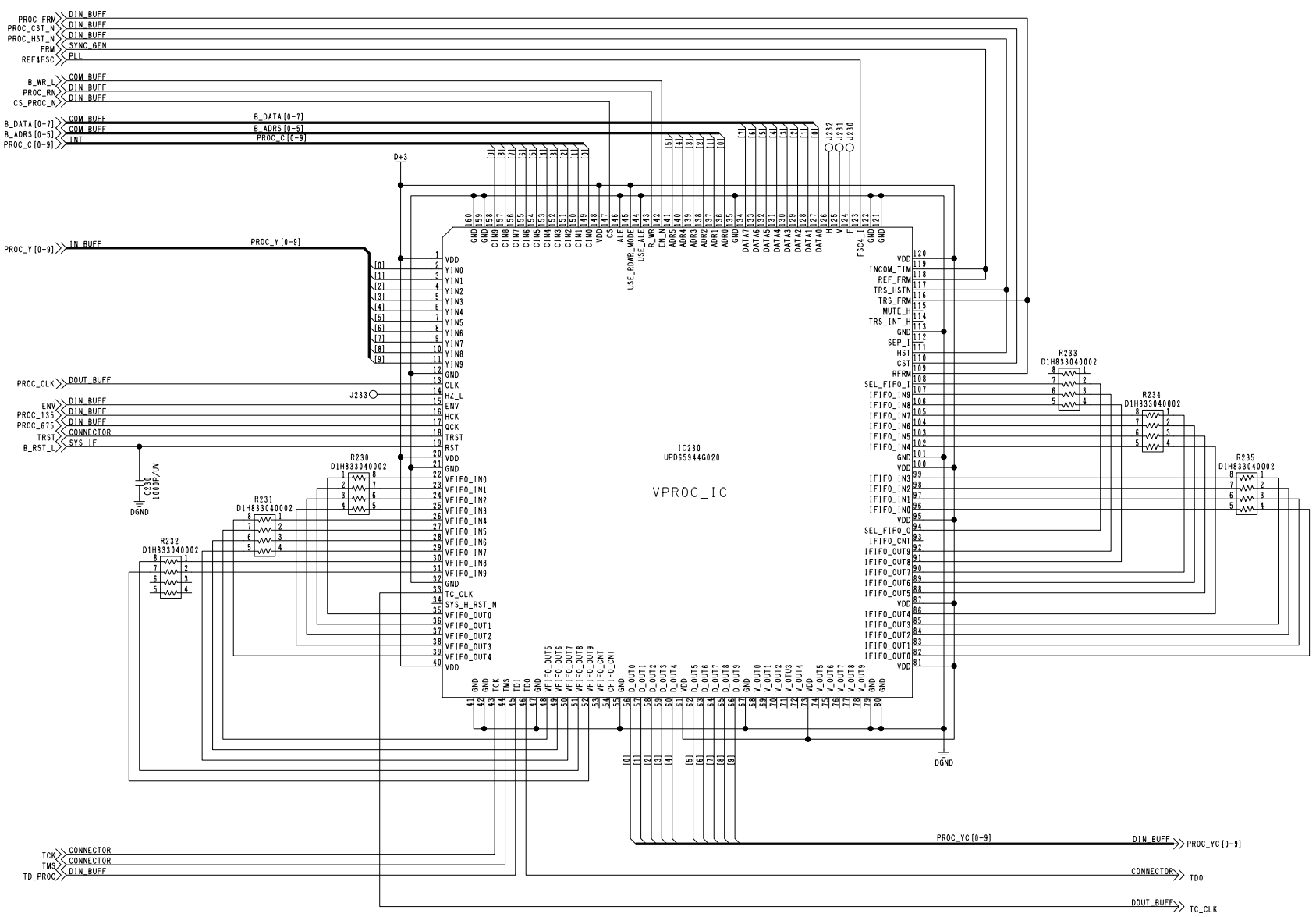
COMPONENT NAME	F2:V OUT (CONNECTOR)	01/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP83557B		KR30091 (1/14)
		SCM010



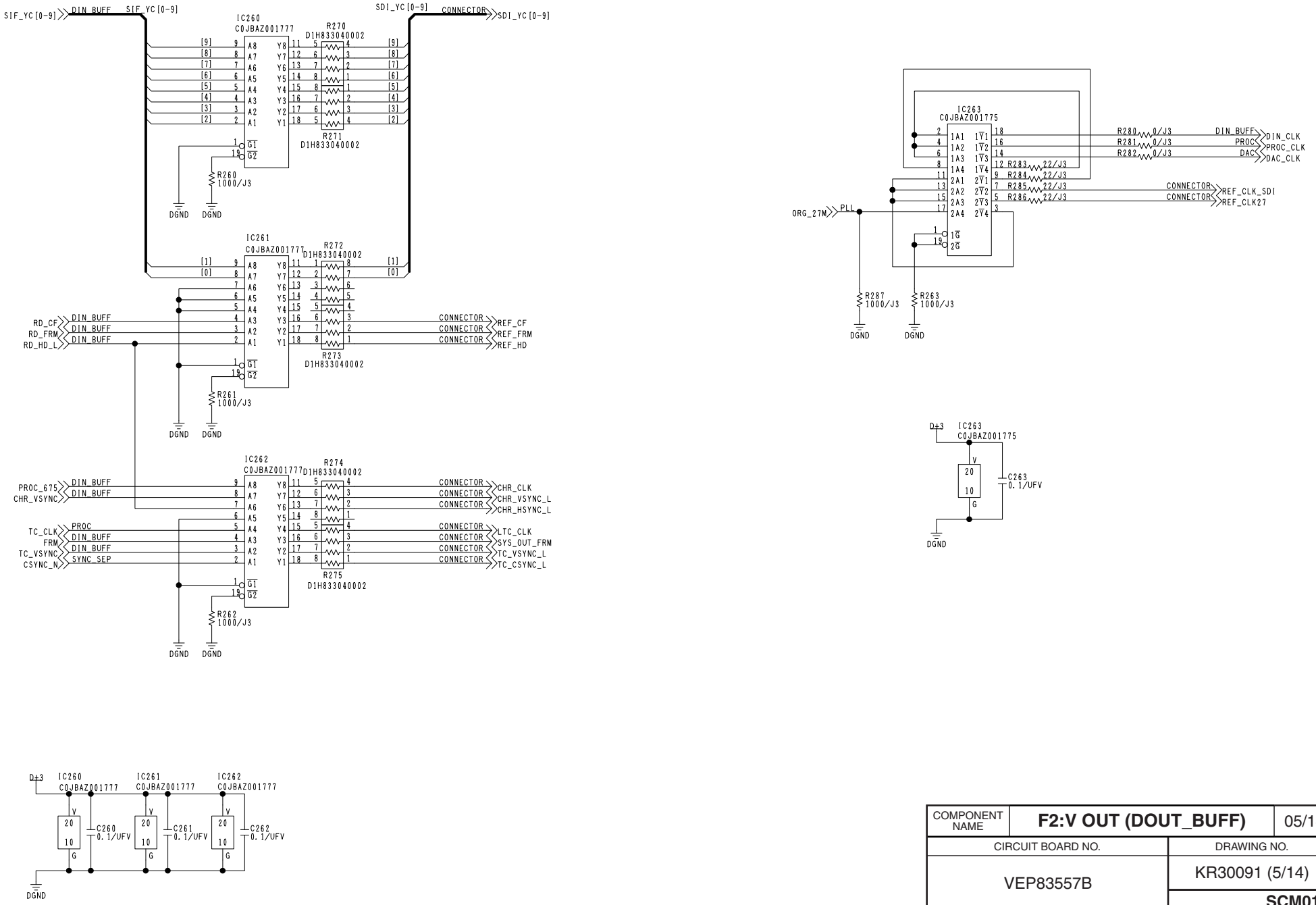
COMPONENT NAME	F2:V OUT (COM_BUFF)	02/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP83557B		KR30091 (2/14)
		SCM011



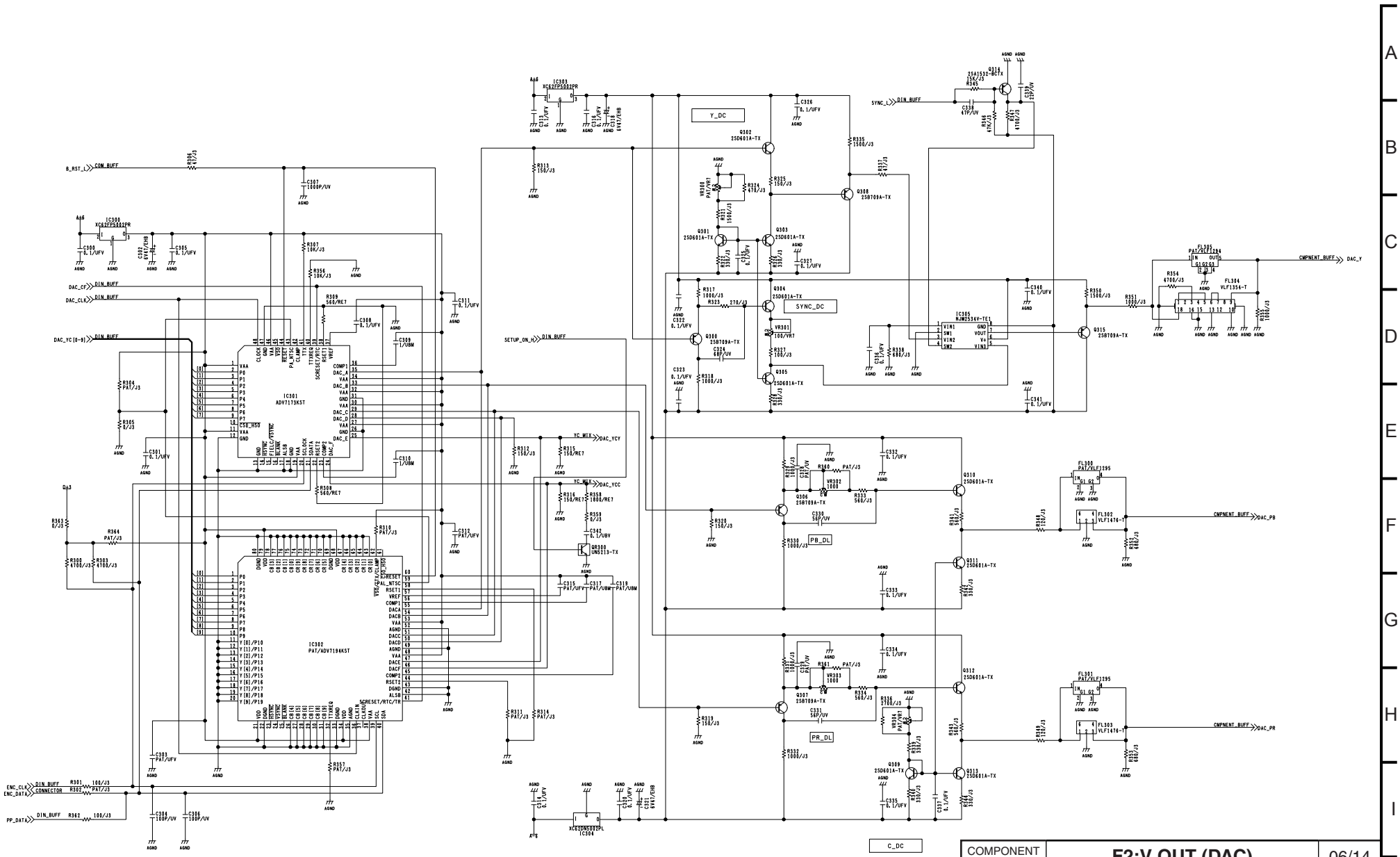
COMPONENT NAME	F2:V OUT (DIN_BUFF)		03/14
CIRCUIT BOARD NO.		DRAWING NO.	
VEP83557B		KR30091 (3/14)	
		SCM012	



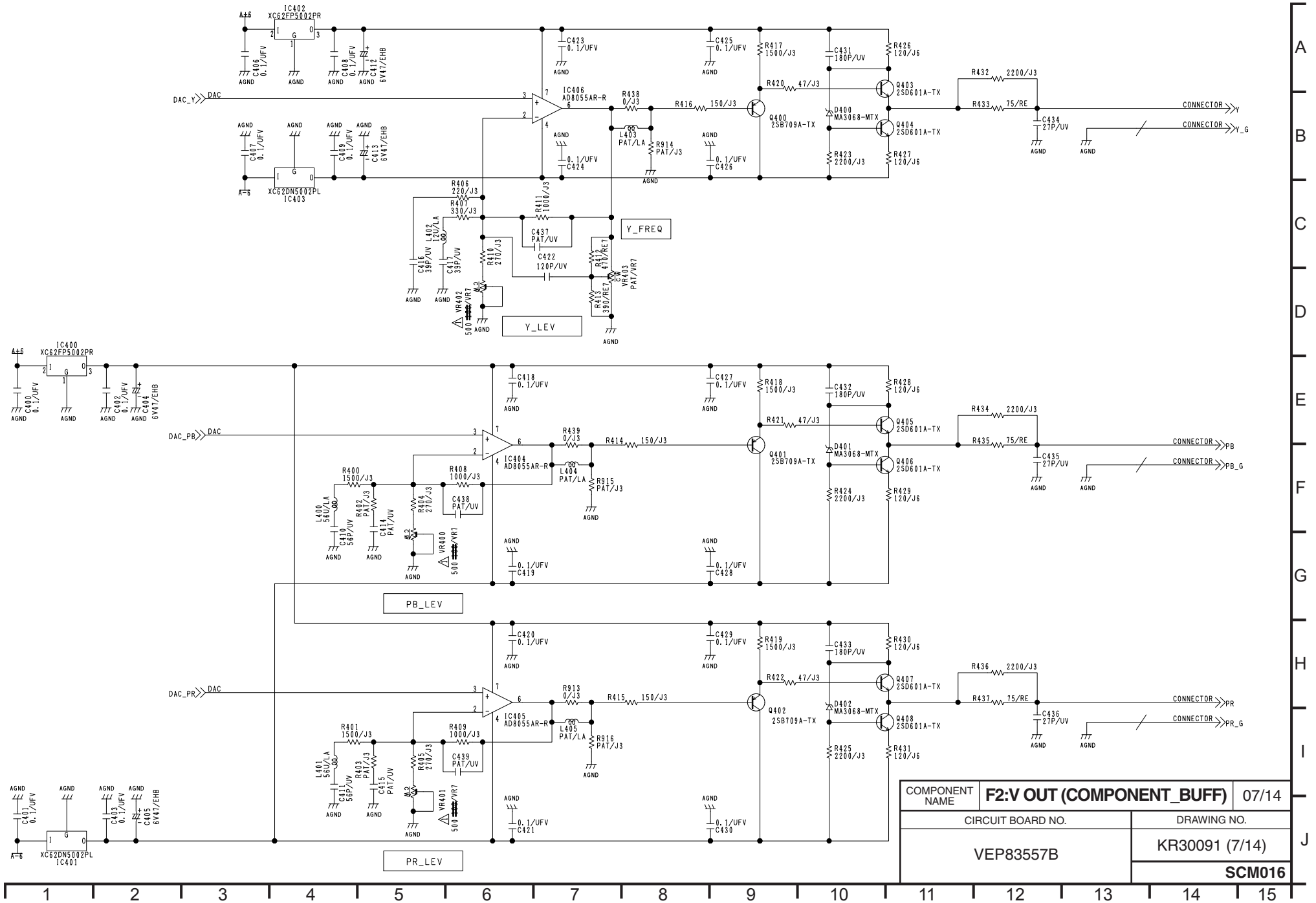
COMPONENT NAME	F2:V OUT (PROC)	04/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP83557B		KR30091 (4/14)
		SCM013



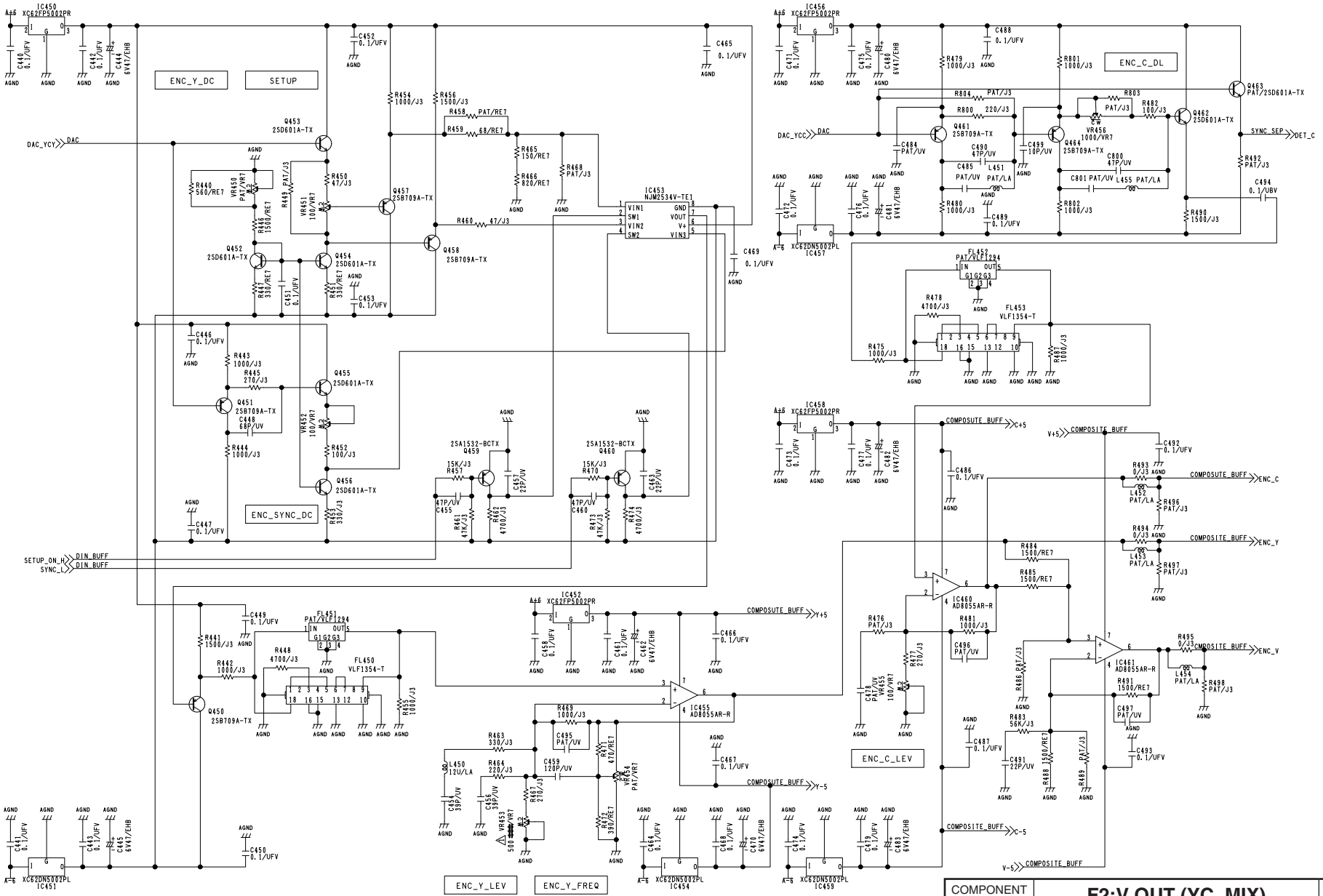
COMPONENT NAME	F2:V OUT (DOUT_BUFF)	05/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP83557B		KR30091 (5/14)
		SCM014



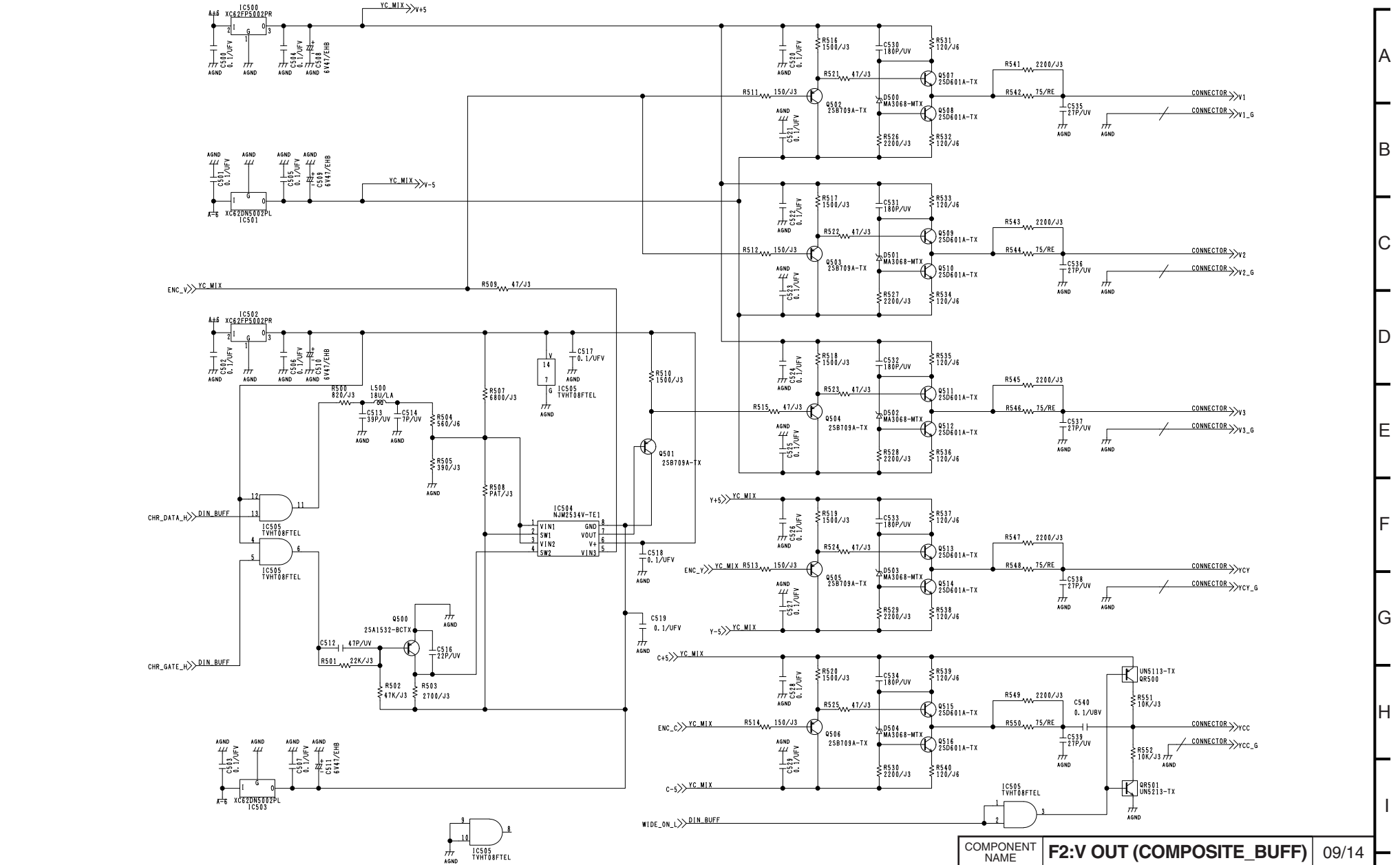
COMPONENT NAME	F2:V OUT (DAC)	06/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP83557B		KR30091 (6/14)
		SCM015



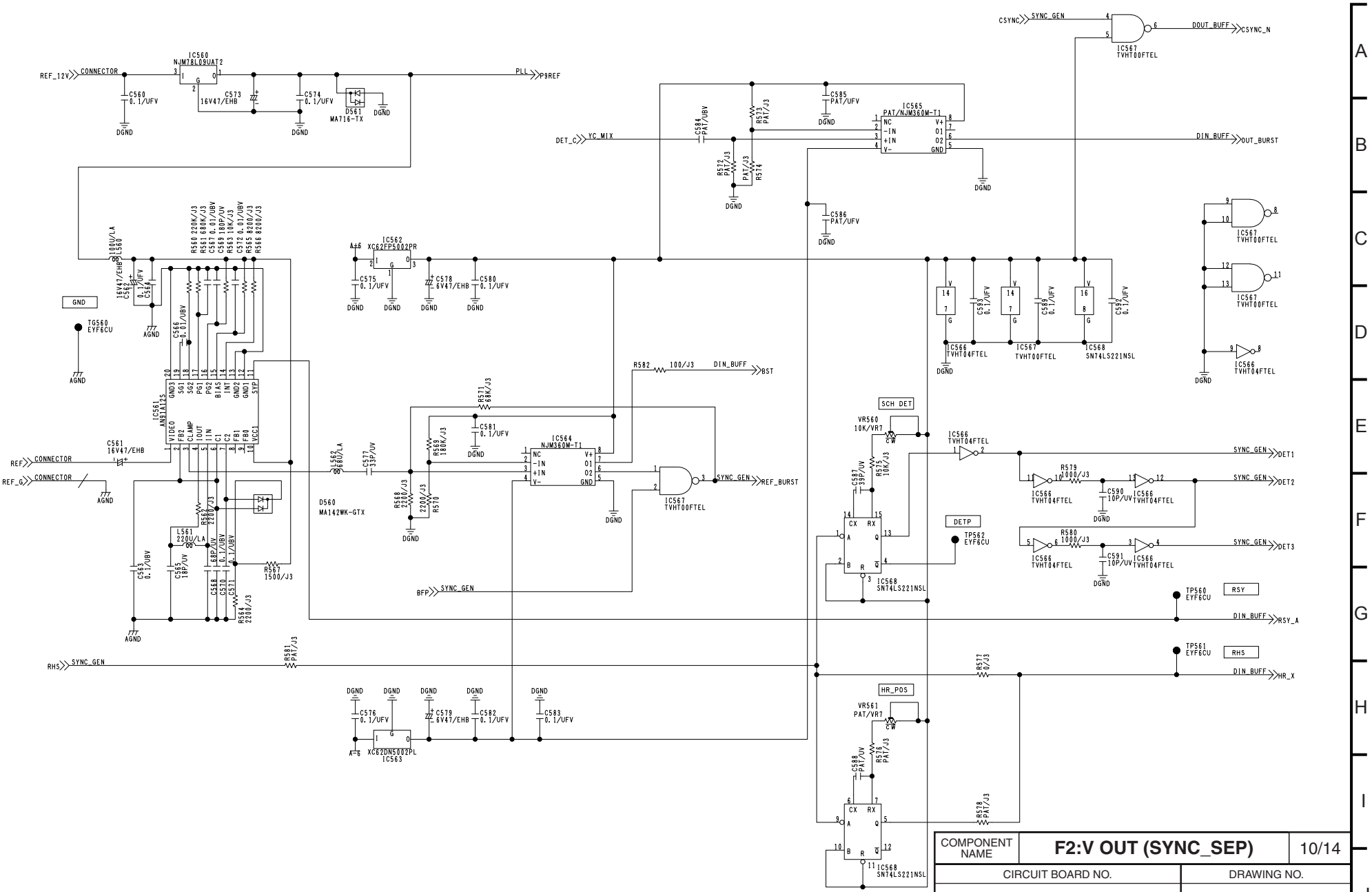
COMPONENT NAME	**F2:V OUT (COMPONENT_BUFF)**	07/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP83557B		KR30091 (7/14)
		SCM016



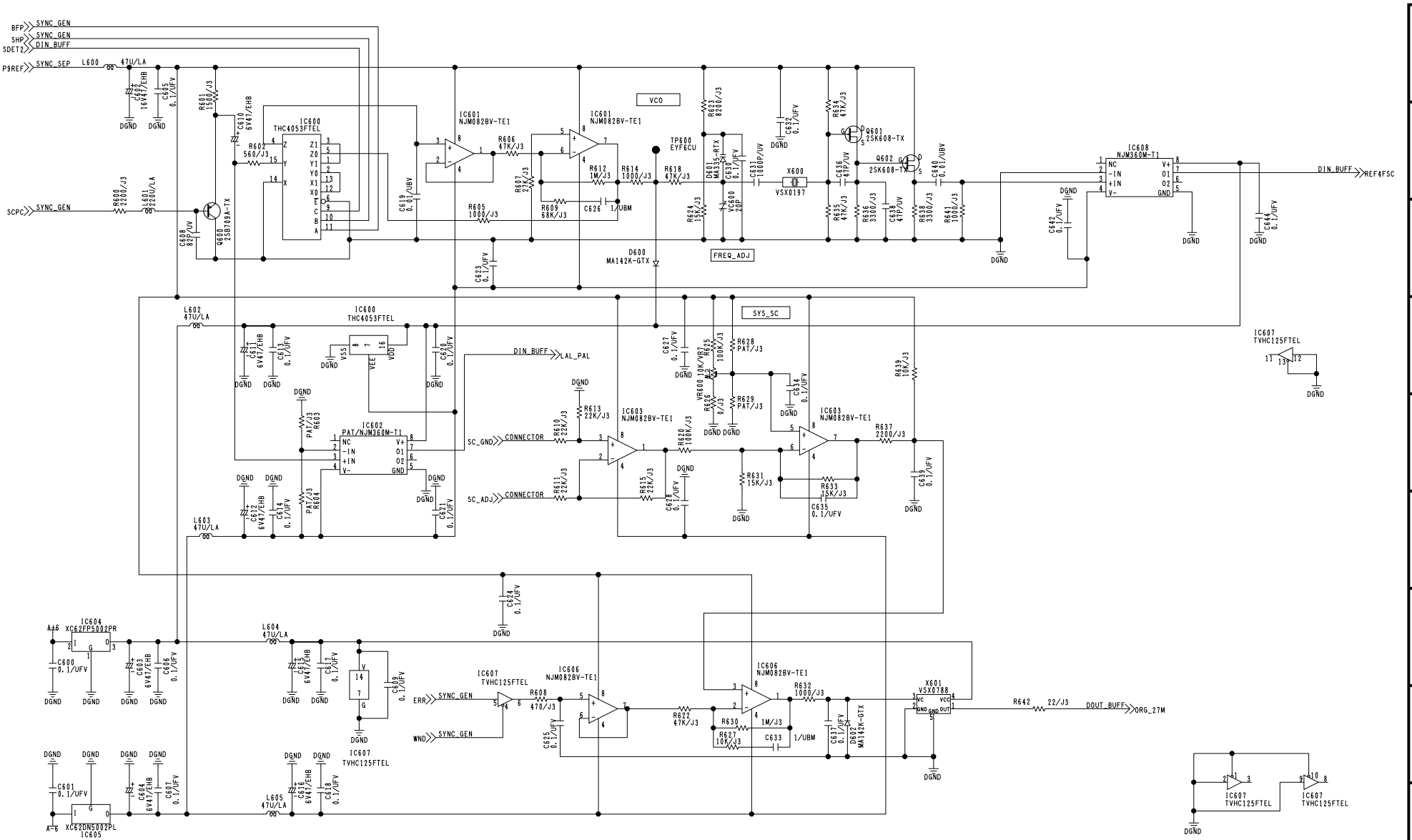
COMPONENT NAME	**F2:V OUT (YC_MIX)**	08/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83557B	KR30091 (8/14)	
	SCM017	



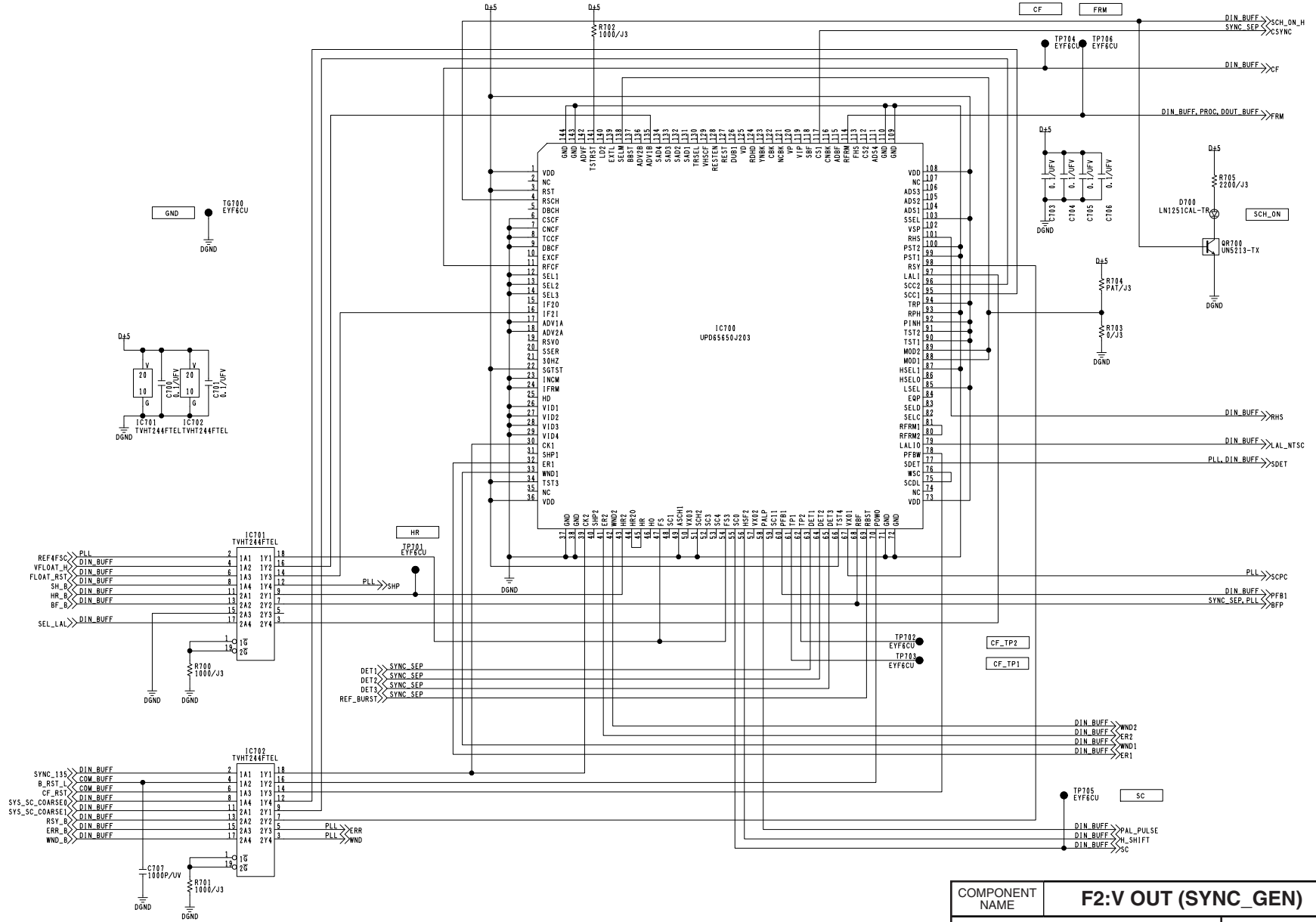
COMPONENT NAME	F2:V OUT (COMPOSITE_BUFF)	09/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP83557B		KR30091 (9/14)
		SCM018



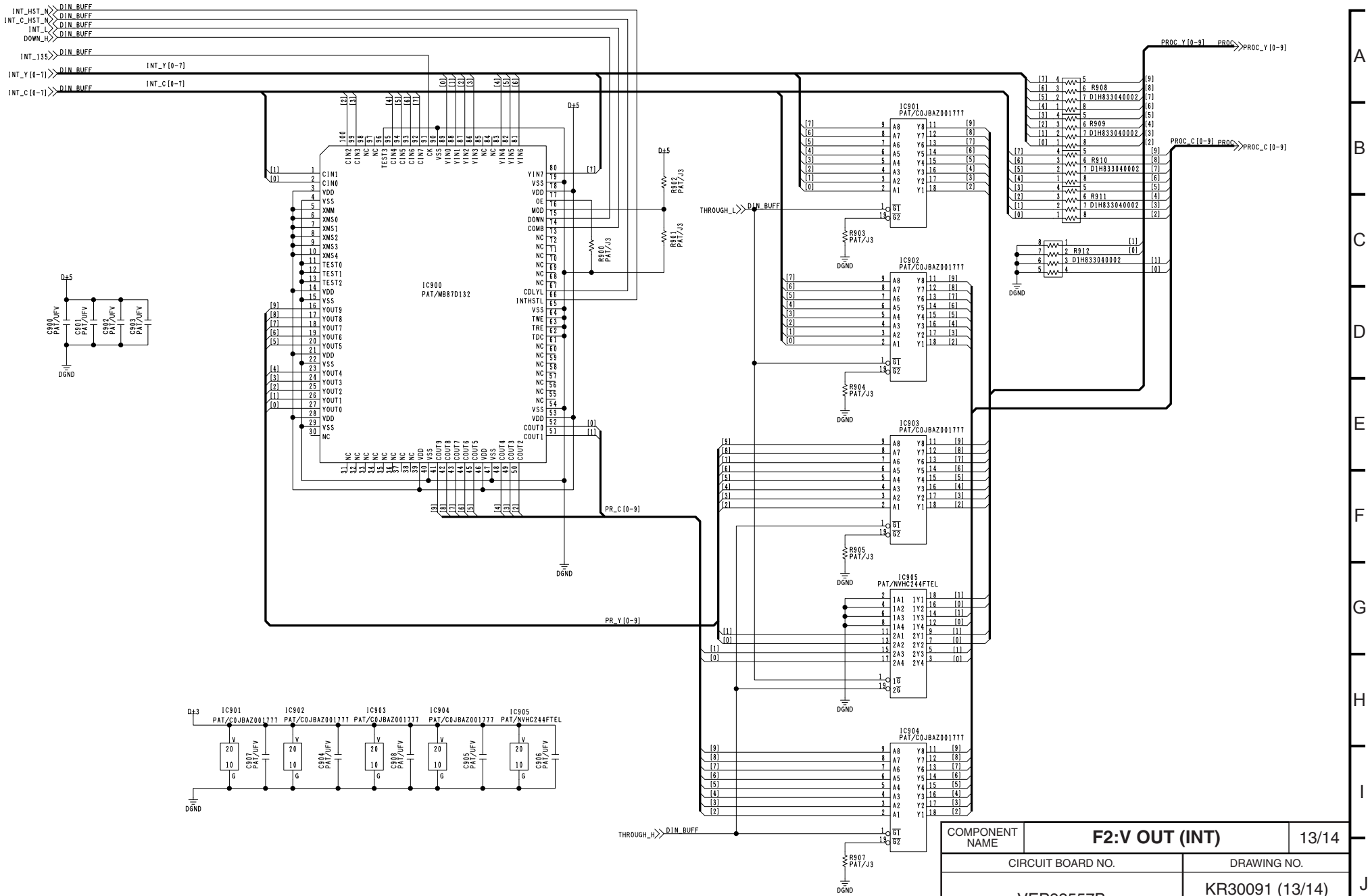
COMPONENT NAME	**F2:V OUT (SYNC_SEP)**	10/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP83557B		KR30091(10/14)
		SCM019



COMPONENT NAME	F2:V OUT (PLL)	11/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP83557B		KR30091 (11/14)
		SCM020



COMPONENT NAME	**F2:V OUT (SYNC_GEN)**	12/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83557B	KR30091 (12/14)	
	SCM021	



COMPONENT NAME	**F2:V OUT (INT)**	13/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83557B	KR30091 (13/14)	
	SCM022	

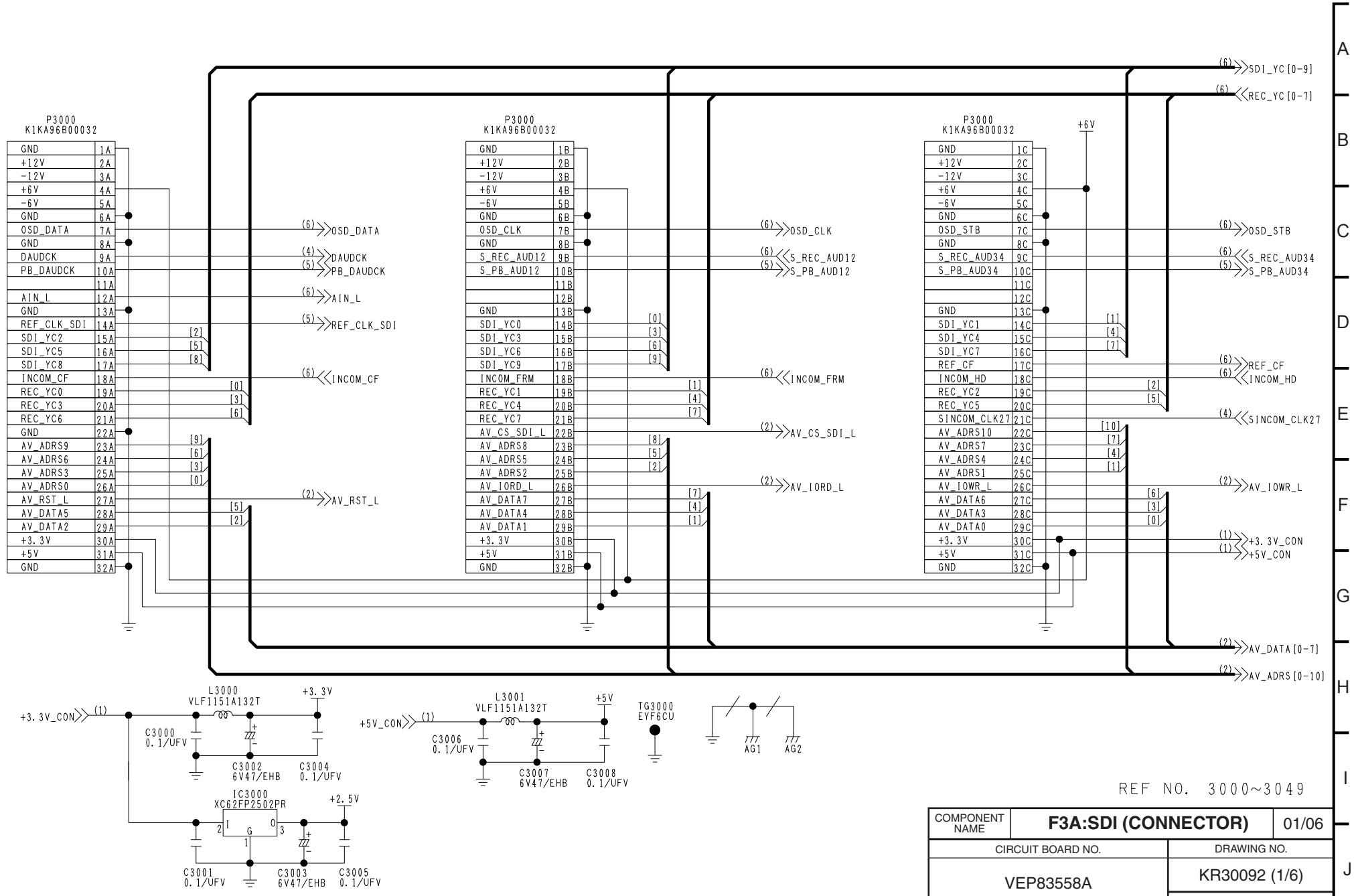
REF	AJ-D455E VEP83557B
ID202(ID0)	VSI3560A
R200	ERJ3GEY0R00V
R201	ERJ3GEY0R00V
R202	ERJ3GEY0R00V
R203	–
R204	–
R205	–
QR300	–
C342	–
R358	–
R359	–
VR451	–
Q457	–
R450	–
R454	–
R459	–
R465	–
R466	–
R449	ERJ3RBD151V
R468	ERJ3GEY0R00V
Q463	2SD601A-TX
R492	ERJ3GEYJ152V

REF	AJ-D455E VEP83557B
C584	F1H1C104A042
C585	ECUV1E104ZFV
C586	ECUV1E104ZFV
R572	ERJ3GEYJ103V
R573	ERJ3GEYJ103V
R574	ERJ3GEYJ271V
IC565	C0BBZB000002
L562	VLQ0163J390
X600	VSX0316
R603	ERJ3GEYJ102V
R604	ERJ3GEYJ103V
IC602	C0BBZB000002
R703	–
R704	ERJ3GEY0R00V
C499	–
R477	ERJ3GEYJ181V
R481	ERJ3GEYJ681V
R622	ERJ3GEYJ104V

COMPONENT NAME	F2:V OUT (PARTS_TABLE)	14/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP83557B		KR30091 (14/14)
		SCM023

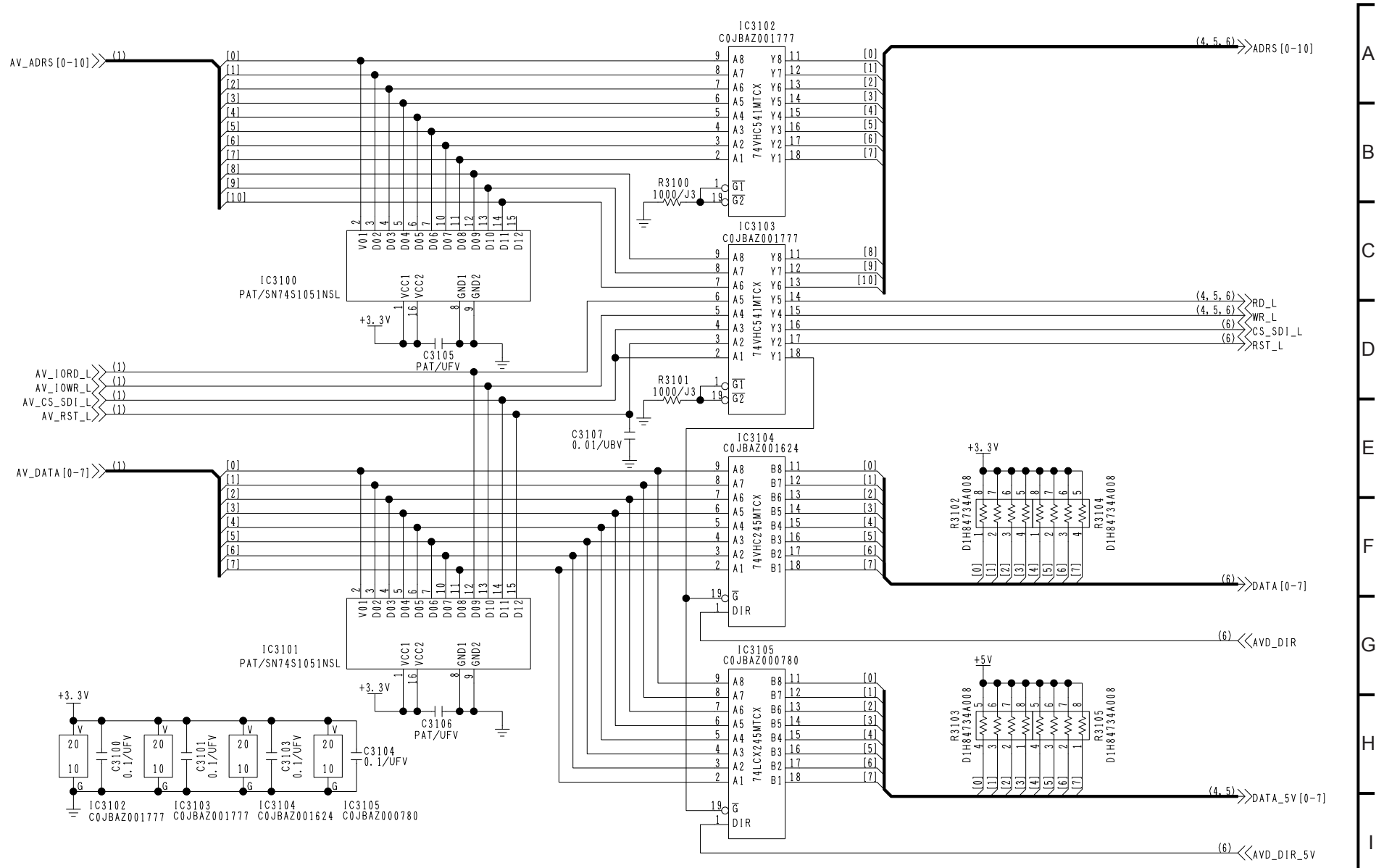
A B C D E F G H I J

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



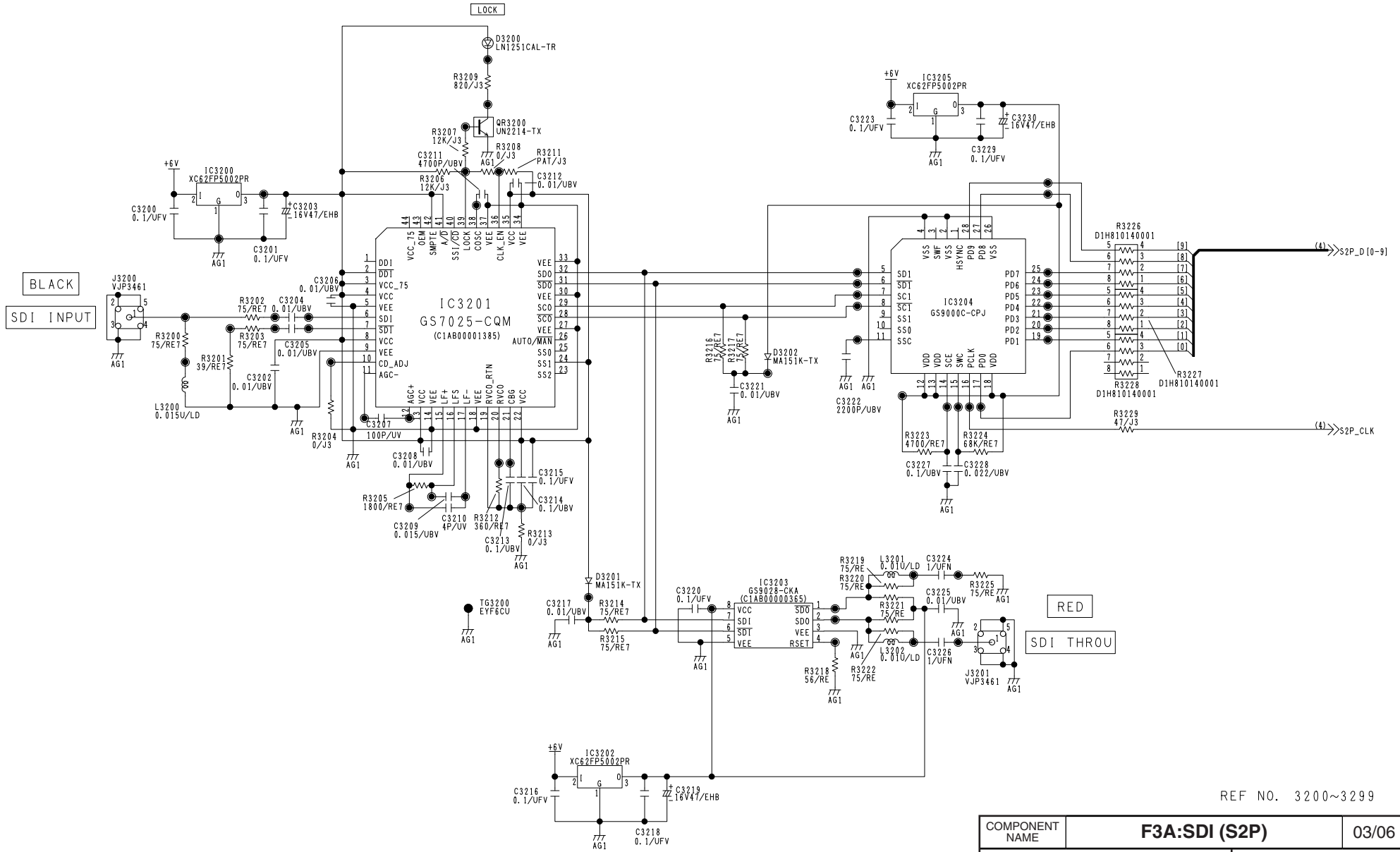
REF NO. 3000~3049

COMPONENT NAME	F3A:SDI (CONNECTOR)	01/06
CIRCUIT BOARD NO.		DRAWING NO.
VEP83558A		KR30092 (1/6)
		SCM024

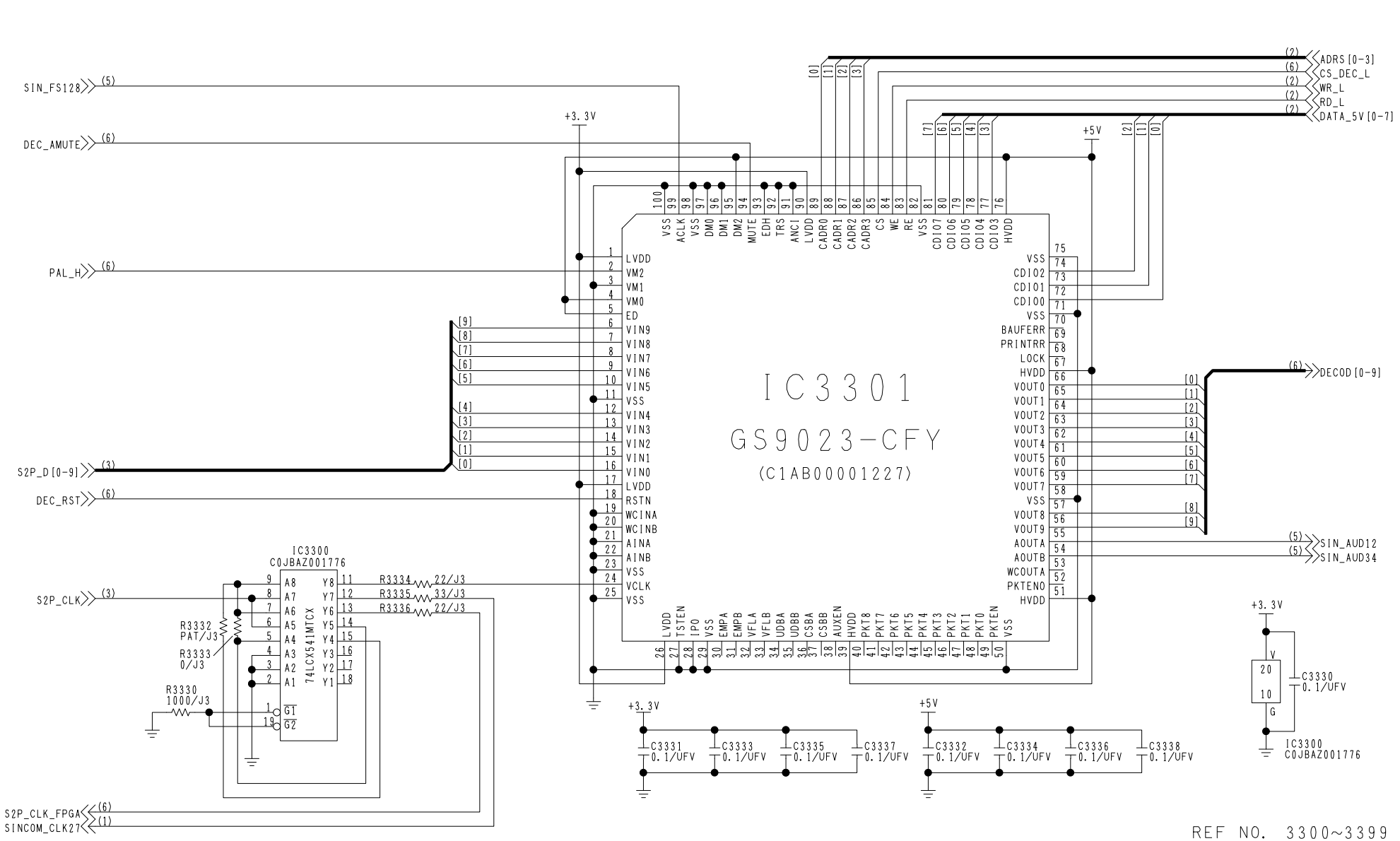


REF NO. 3100~3199

COMPONENT NAME	F3A:SDI (SYSIO)	02/06
CIRCUIT BOARD NO.		DRAWING NO.
VEP83558A		KR30092 (2/6)
		SCM025

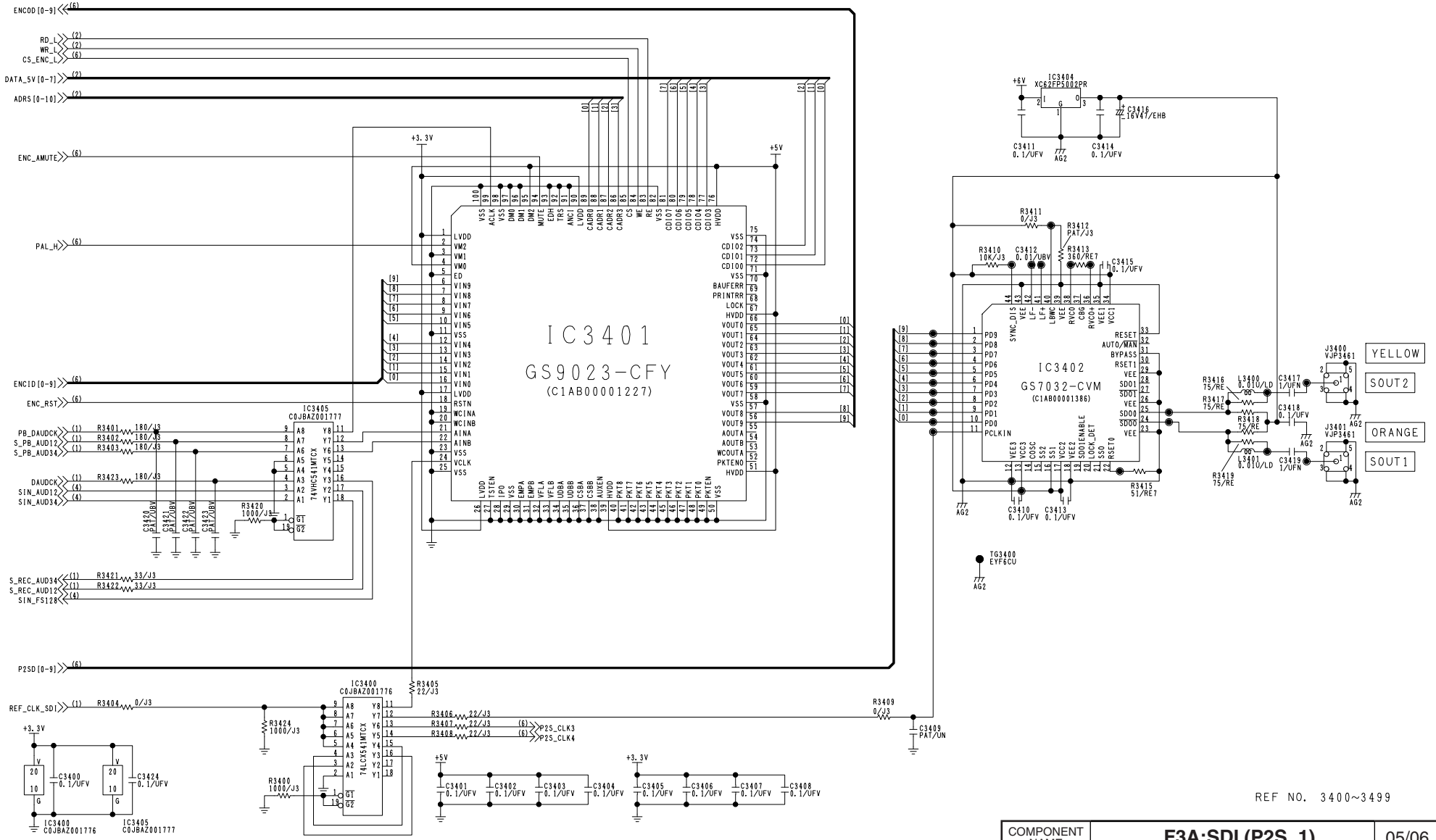


COMPONENT NAME	F3A:SDI (S2P)	03/06
CIRCUIT BOARD NO.		DRAWING NO.
VEP83558A		KR30092 (3/6)
		SCM026



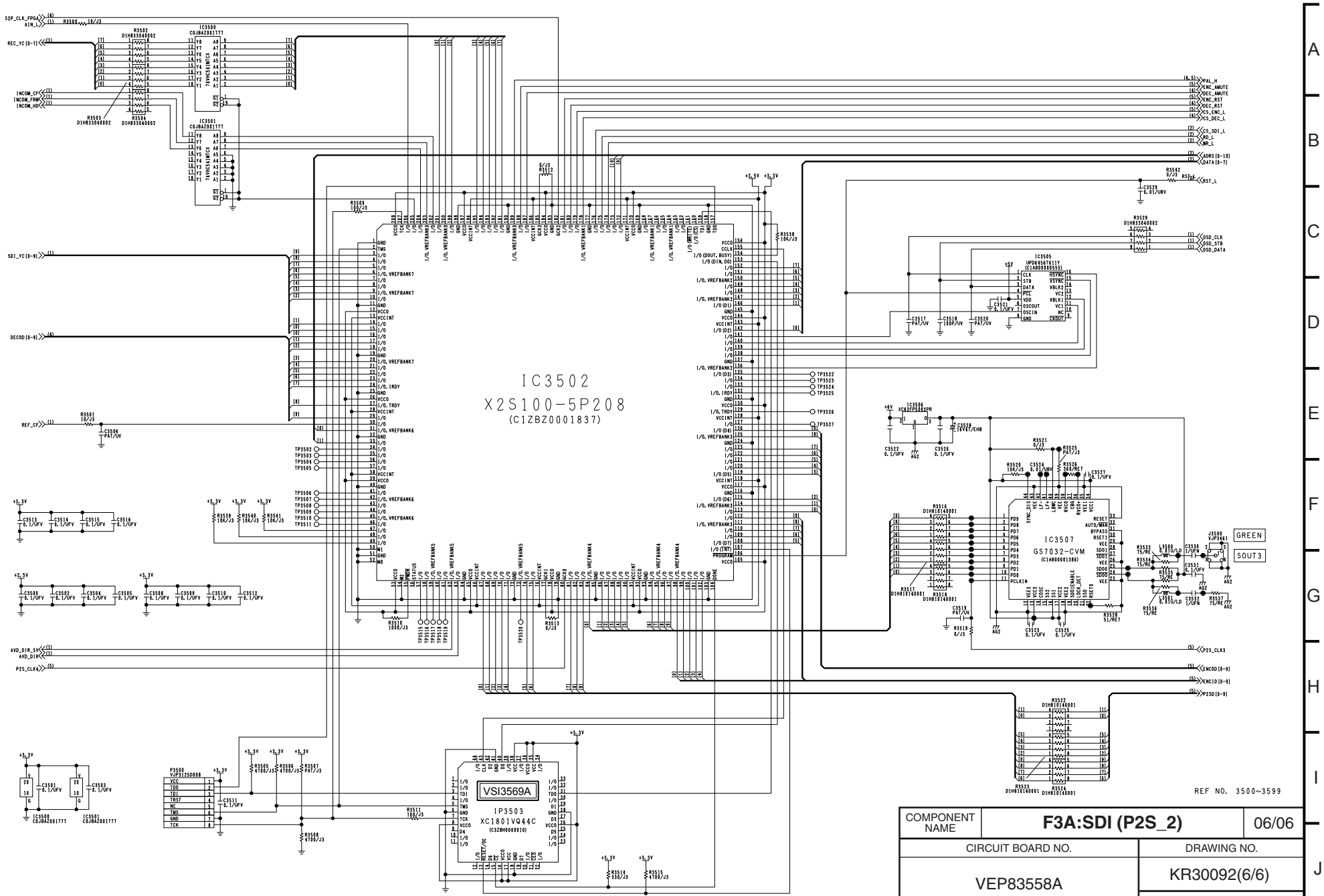
REF NO. 3300~3399

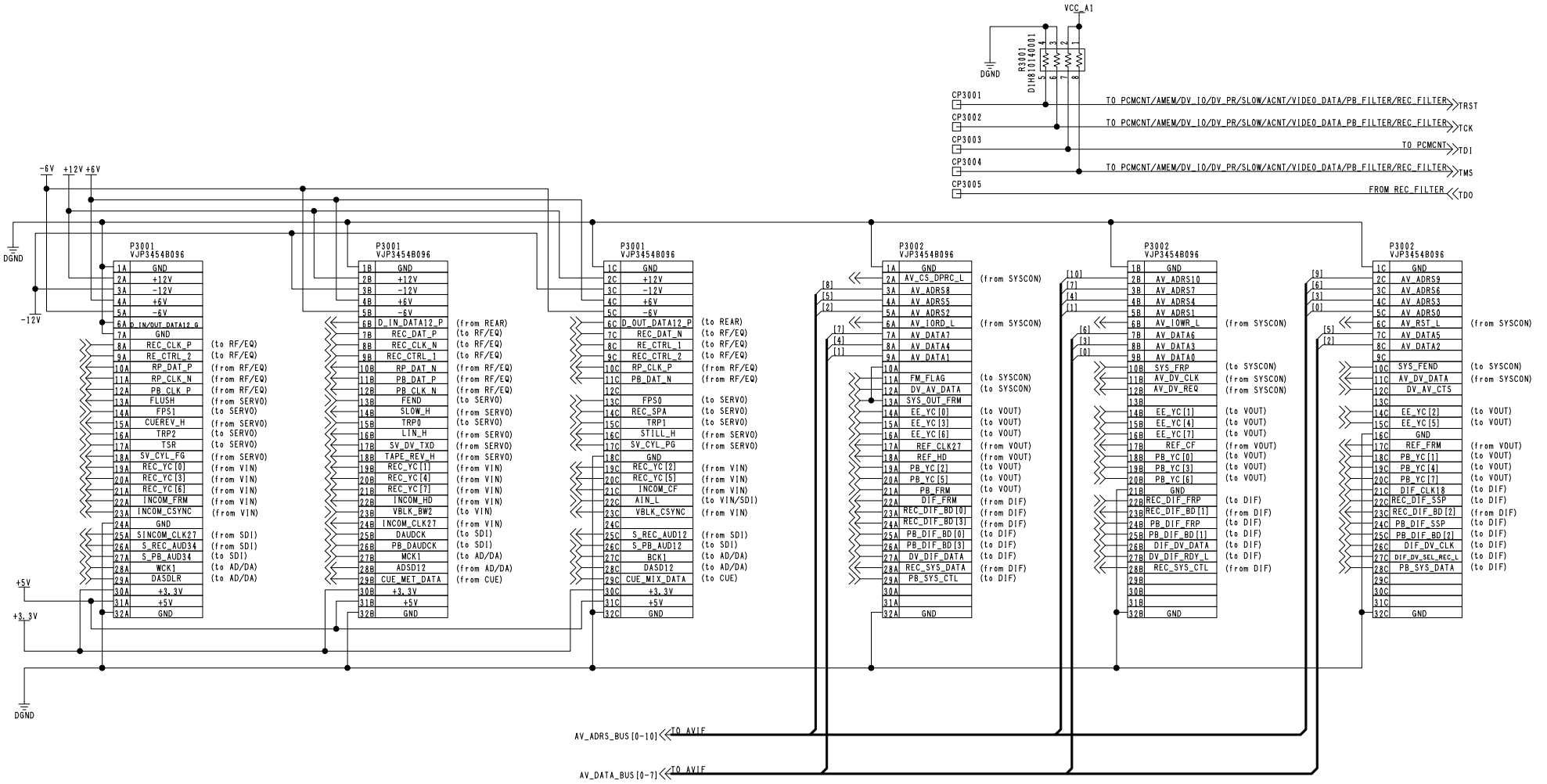
COMPONENT NAME	F3A:SDI (DECODER)	04/06
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83558A	KR30092 (4/6)	
	SCM027	



REF NO. 3400~3499

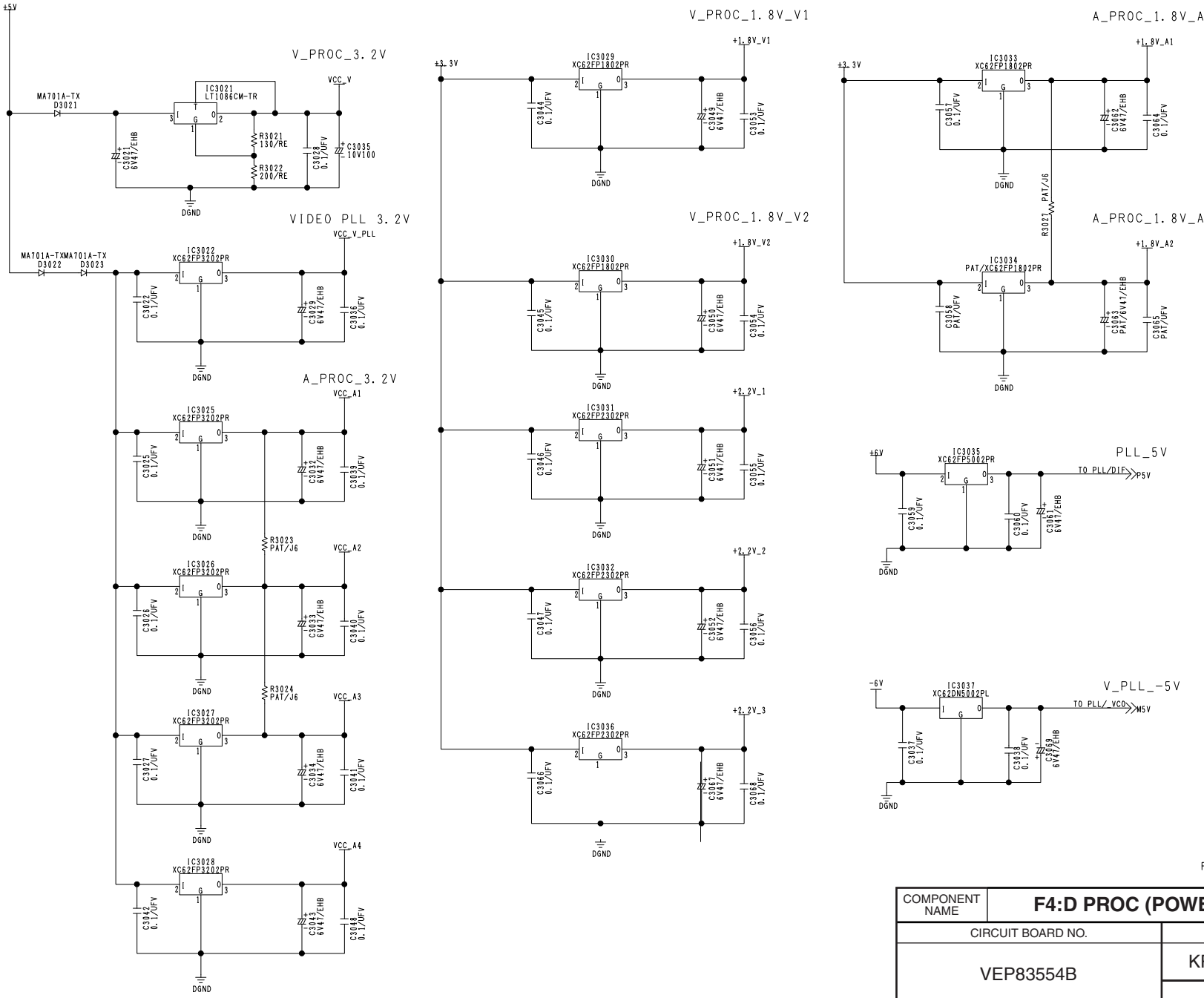
COMPONENT NAME	F3A:SDI (P2S_1)	05/06
CIRCUIT BOARD NO.		DRAWING NO.
VEP83558A		KR30092 (5/6)
		SCM028

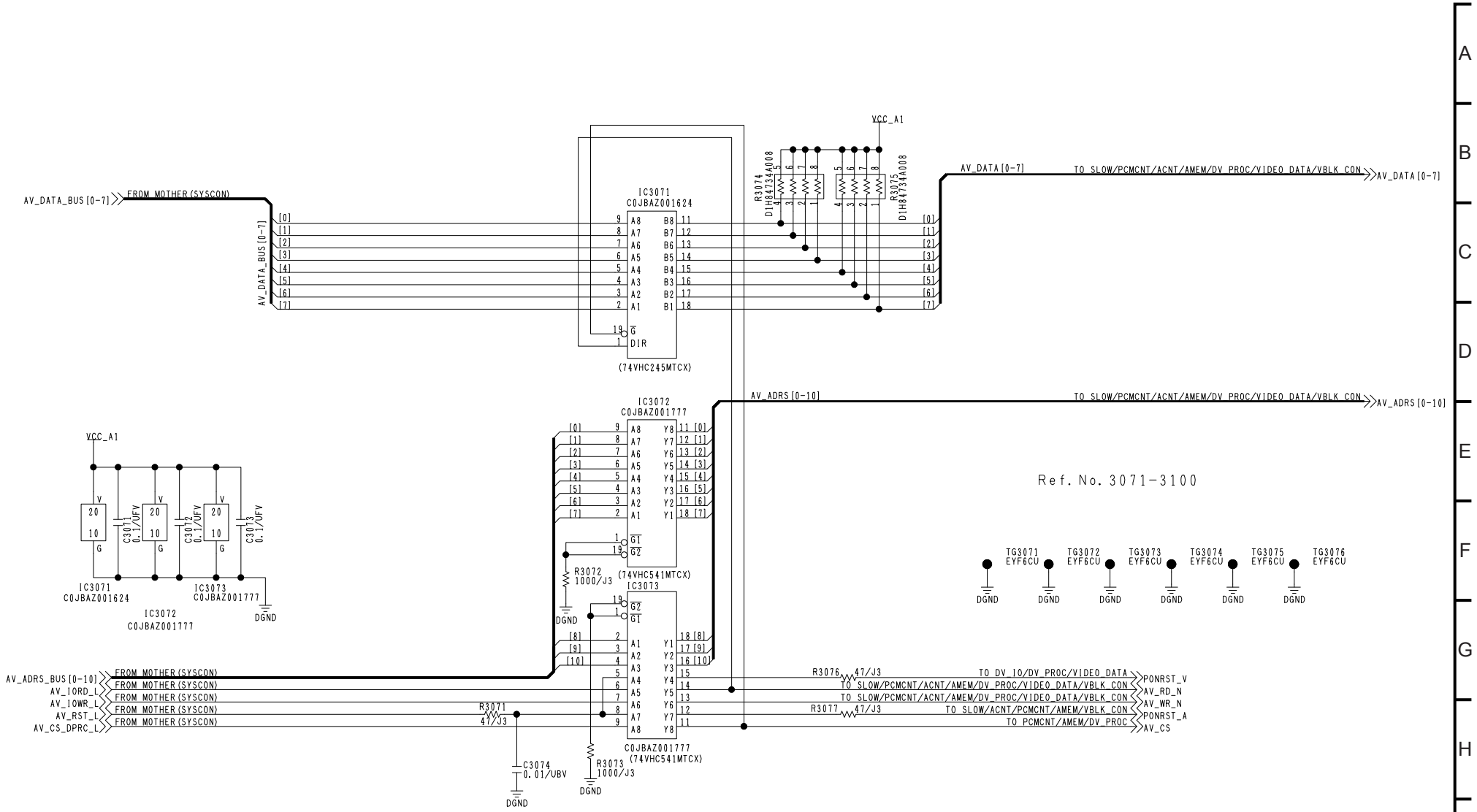

IC3502
X2S100-5P208
(C1ZBZ0001837)
IC3507
GS7032-CVM
(C1AB0001386)
VSI3569A
IP3503
XC1801VQ44C
(C3ZBH0000010)
IC3505
UPD64567611Y
(C1AB0008000553)
IC3506
XC4EPP3662PR
REF NO. 3500~3599
GREEN
SOUT3
COMPONENT NAME
F3A:SDI (P2S_2)
06/06
CIRCUIT BOARD NO.
VEP83558A
DRAWING NO.
KR30092(6/6)
SCM029



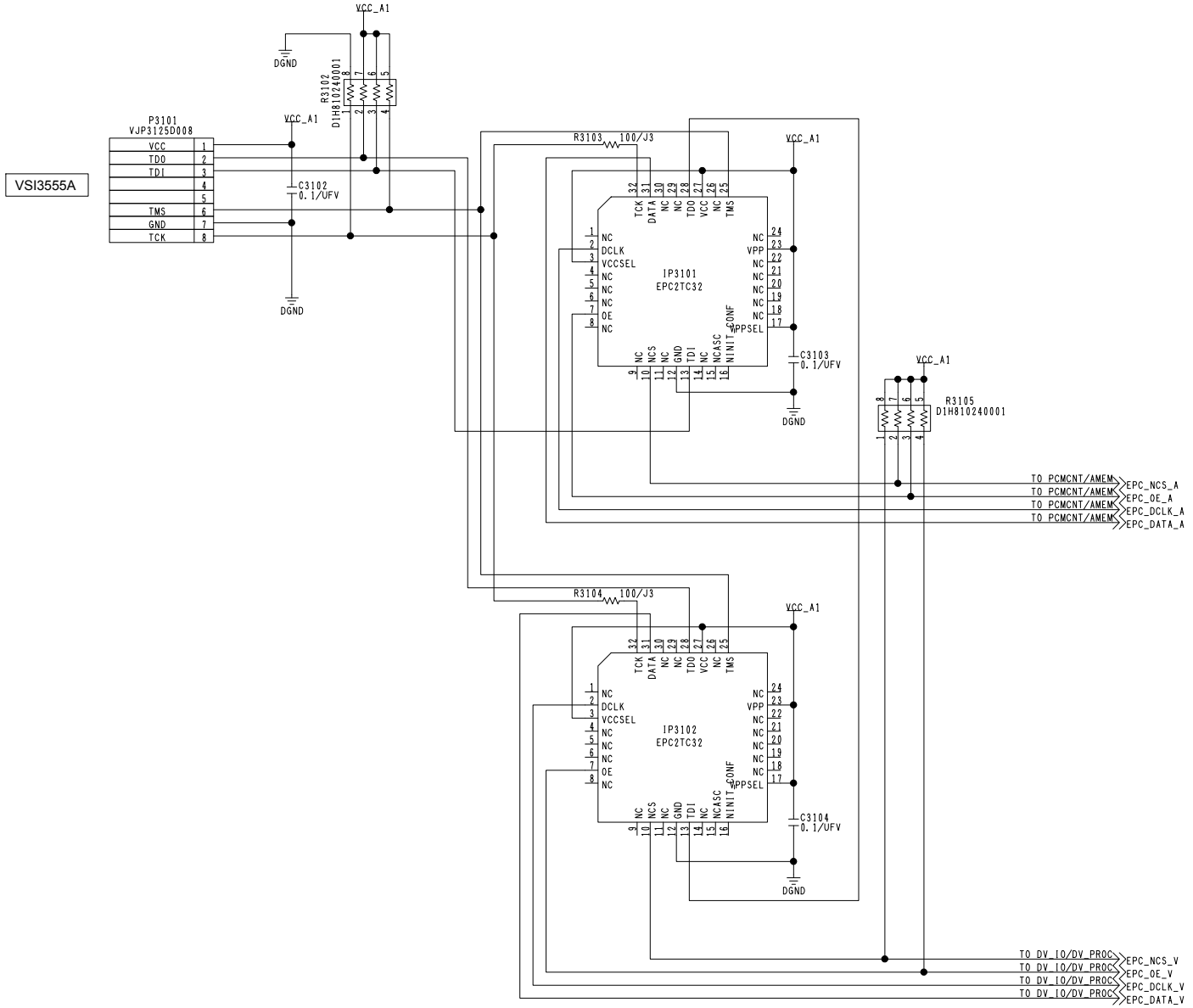
Ref No. 3001-3020

COMPONENT NAME	F4:D PROC (MOTHER)	01/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088 (1/27)
		SCM030


+5V
V_PROC_3. 2V
MA701A-TX
D3021
IC3021
LT1086CM-TR
VCC_V
R3021
130/RE
R3022
200/RE
C3028
0.1/UFV
C3035
10V100
C3027
6V47/EHB
DGND
VIDEO PLL 3. 2V
MA701A-TX
D3022
MA701A-TX
D3023
IC3022
XC62FP3202PR
VCC_V_PLL
C3022
0.1/UFV
C3029
6V47/EHB
C3036
0.1/UFV
A_PROC_3. 2V
IC3025
XC62FP3202PR
VCC_A1
C3025
0.1/UFV
C3032
6V47/EHB
C3039
0.1/UFV
R3023
PAT/J6
IC3026
XC62FP3202PR
VCC_A2
C3026
0.1/UFV
C3033
6V47/EHB
C3040
0.1/UFV
R3024
PAT/J6
IC3027
XC62FP3202PR
VCC_A3
C3027
0.1/UFV
C3034
6V47/EHB
C3041
0.1/UFV
IC3028
XC62FP3202PR
VCC_A4
C3042
0.1/UFV
C3043
6V47/EHB
C3048
0.1/UFV
V_PROC_1. 8V_V1
+3. 3V
IC3029
XC62FP1802PR
+1. 8V_V1
C3044
0.1/UFV
C3049
6V47/EHB
C3053
0.1/UFV
V_PROC_1. 8V_V2
IC3030
XC62FP1802PR
+1. 8V_V2
C3045
0.1/UFV
C3050
6V47/EHB
C3054
0.1/UFV
IC3031
XC62FP2302PR
+2. 2V_1
C3046
0.1/UFV
C3051
6V47/EHB
C3055
0.1/UFV
IC3032
XC62FP2302PR
+2. 2V_2
C3047
0.1/UFV
C3052
6V47/EHB
C3056
0.1/UFV
IC3036
XC62FP2302PR
+2. 2V_3
C3066
0.1/UFV
C3067
6V47/EHB
C3068
0.1/UFV
A_PROC_1. 8V_A1
+3. 3V
IC3033
XC62FP1802PR
+1. 8V_A1
C3057
0.1/UFV
C3062
6V47/EHB
C3064
0.1/UFV
R3027
PAT/J6
A_PROC_1. 8V_A2
IC3034
PAT/XC62FP1802PR
+1. 8V_A2
C3058
PAT/UFV
C3063
PAT/6V47/EHB
C3065
PAT/UFV
PLL_5V
±6V
IC3035
XC62FP5002PR
TO PLL/DIF
P5V
C3059
0.1/UFV
C3060
0.1/UFV
C3061
6V47/EHB
V_PLL_-5V
-6V
IC3037
XC62DN5002PL
TO PLL/ VCO
M5V
C3037
0.1/UFV
C3038
0.1/UFV
C3069
6V47/EHB
Ref No. 3021-3070
COMPONENT NAME
F4:D PROC (POWER)
02/27
CIRCUIT BOARD NO.
VEP83554B
DRAWING NO.
KR30088 (2/27)
SCM031

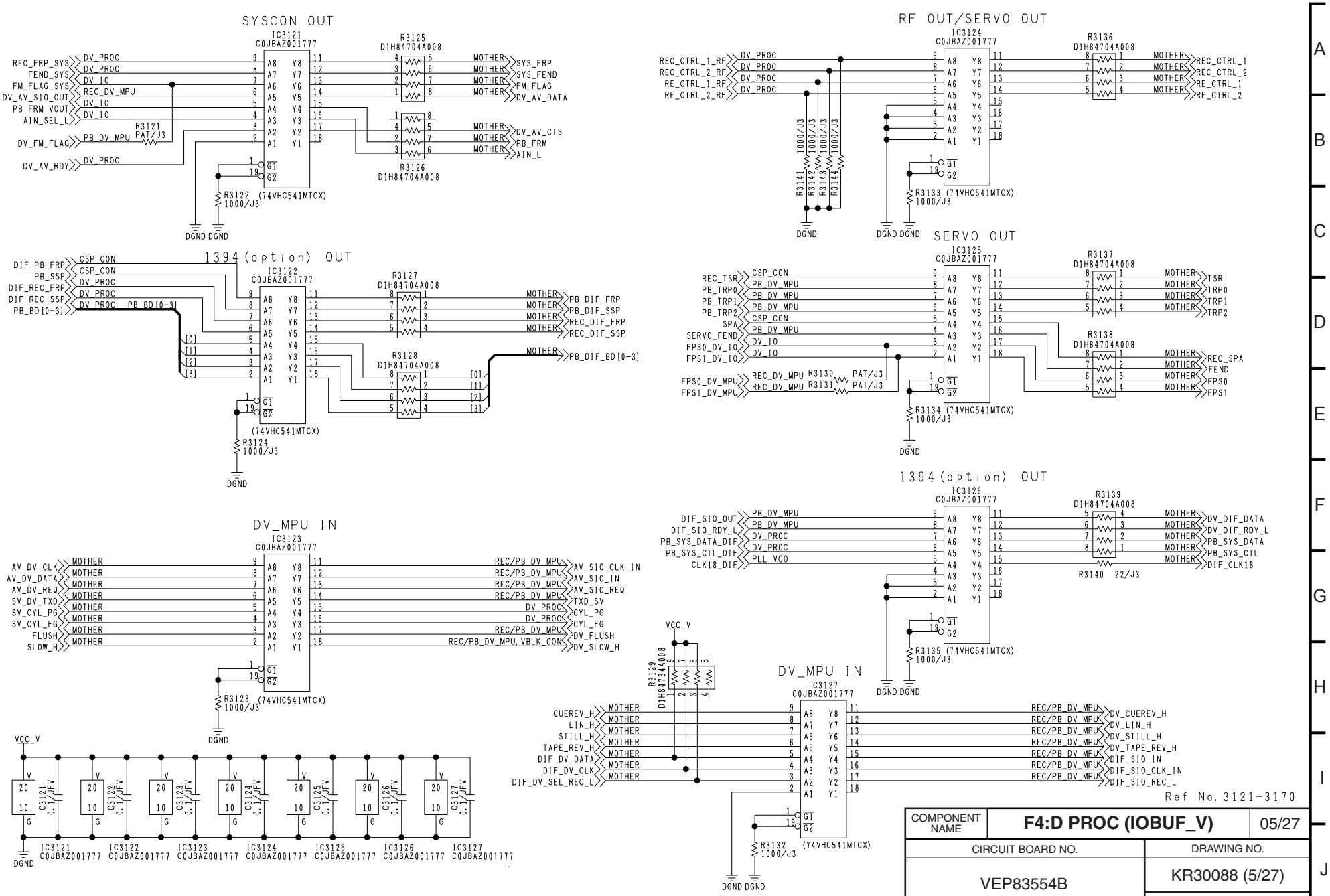


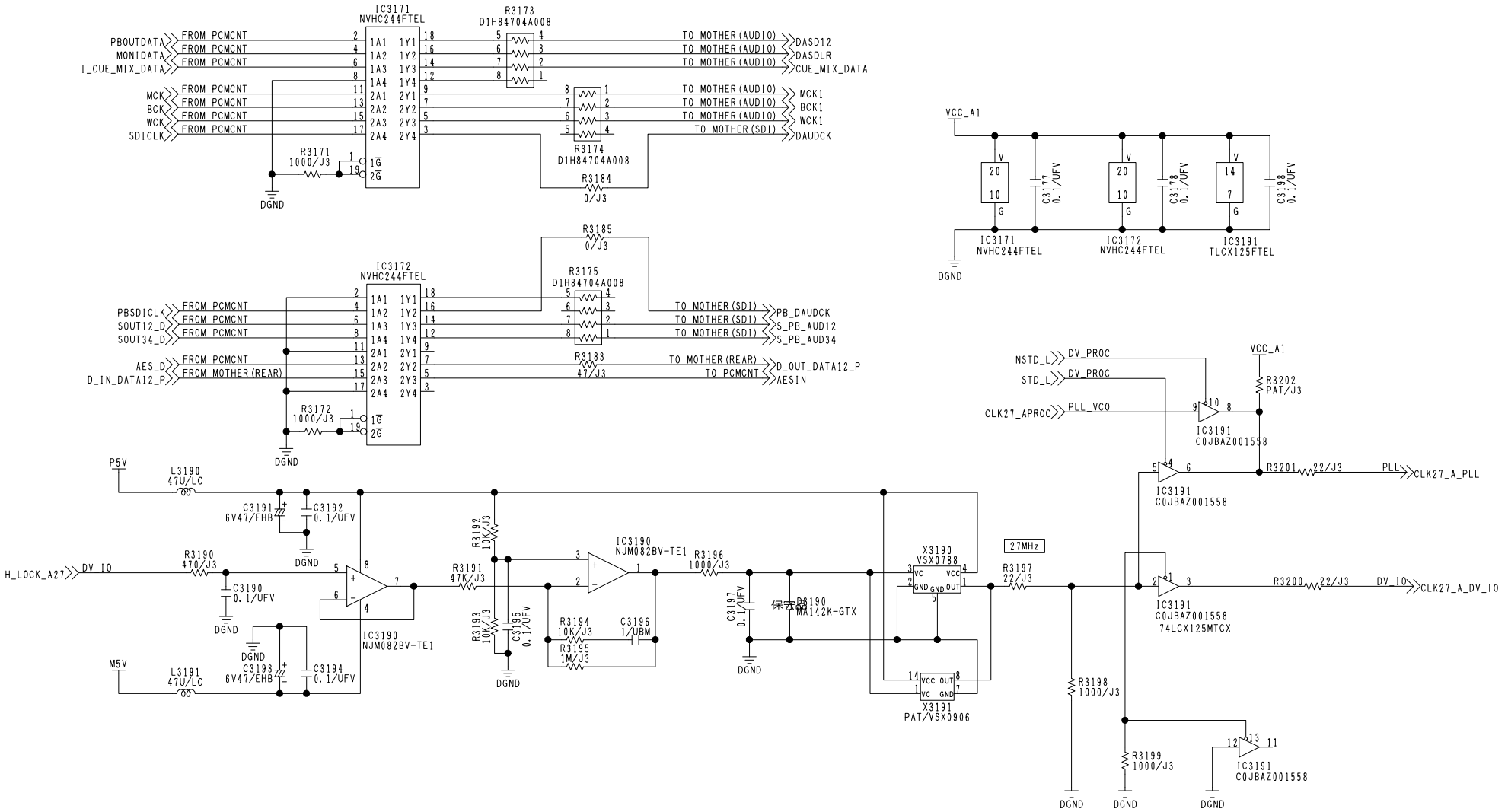
COMPONENT NAME	F4:D PROC (AVIF)	03/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088 (3/27)
		SCM032



Ref. No. 3101-3120

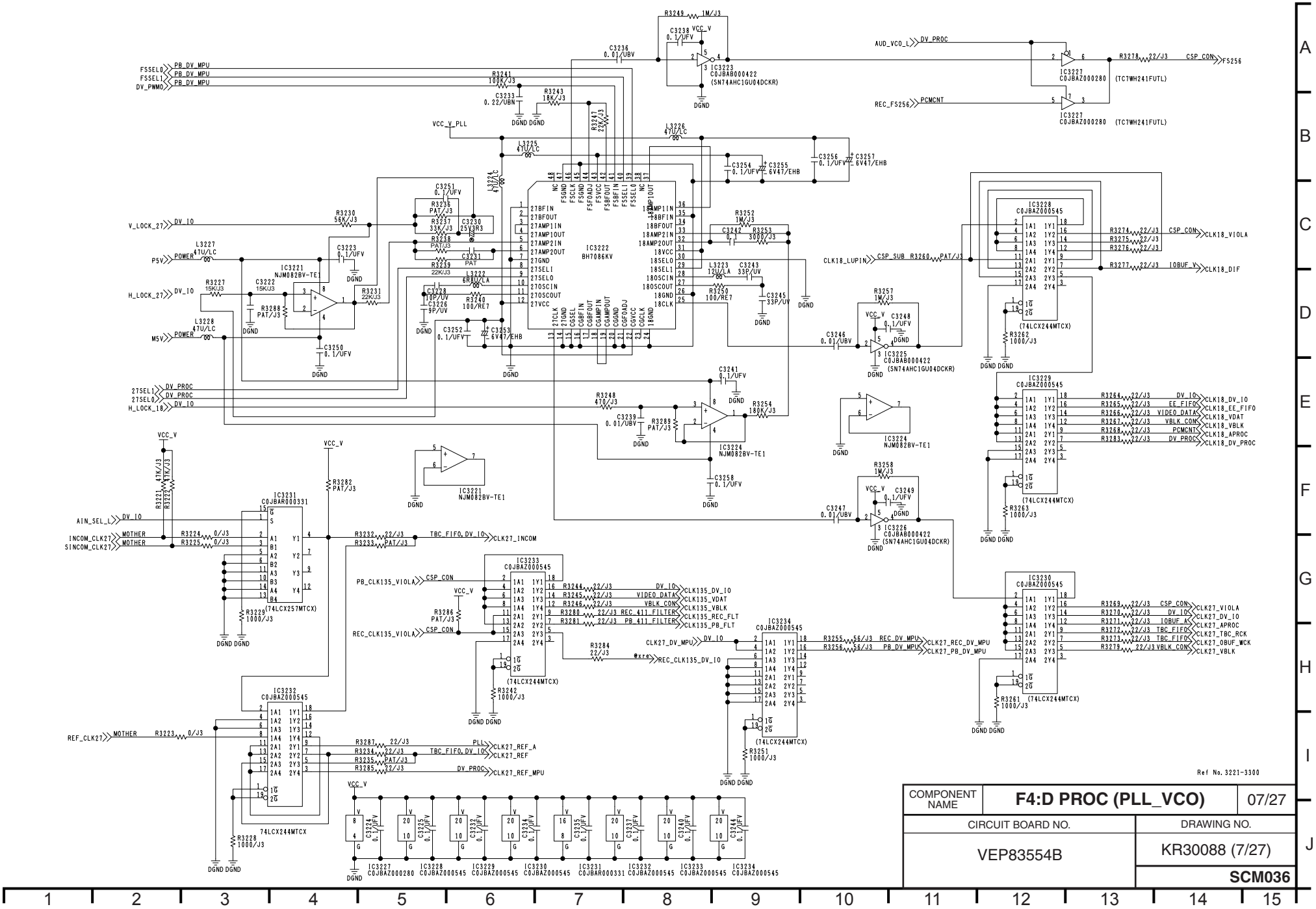
COMPONENT NAME	F4:D PROC (ISP)	04/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088 (4/27)
		SCM033

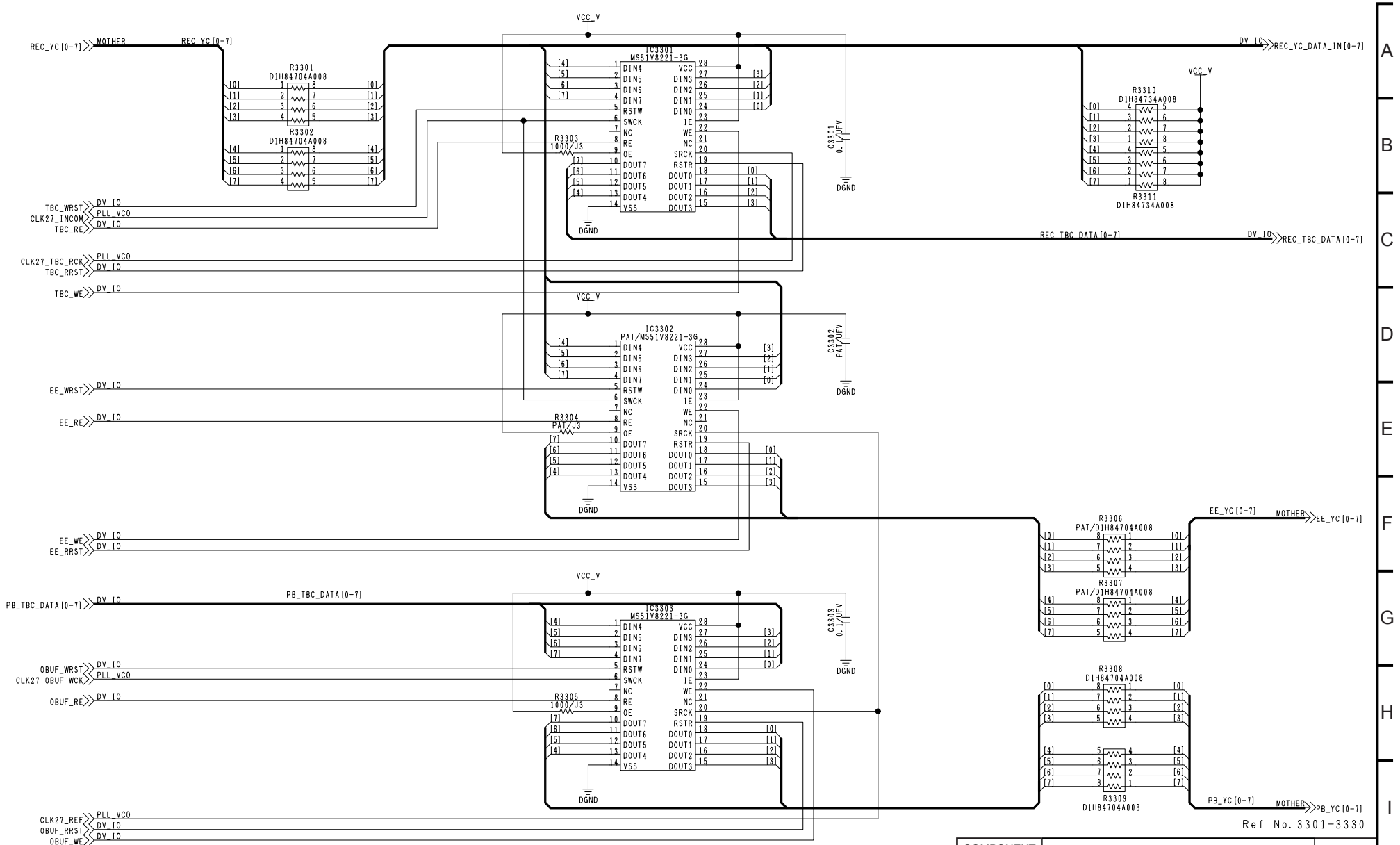

SYSCON OUT
IC3121
C0JBAZ001777
R3125
D1H84704A008
REC_FRP_SYS
FEND_SYS
FM_FLAG_SYS
DV_AV_SIO_OUT
PB_FRM_VOUT
AIN_SEL_L
DV_FM_FLAG
DV_AV_RDY
DV_PROC
DV_IO
REC_DV_MPU
PB_DV_MPU
R3121
PAT/J3
R3122 (74VHC541MTCX)
1000/J3
R3126
D1H84704A008
MOTHER
SYS_FRP
SYS_FEND
FM_FLAG
DV_AV_DATA
DV_AV_CTS
PB_FRM
AIN_L
DGND
RF OUT/SERVO OUT
IC3124
C0JBAZ001777
R3136
D1H84704A008
REC_CTRL_1_RF
REC_CTRL_2_RF
RE_CTRL_1_RF
RE_CTRL_2_RF
REC_CTRL_1
REC_CTRL_2
RE_CTRL_1
RE_CTRL_2
R3141
R3142
R3143
R3144
1000/J3
R3133 (74VHC541MTCX)
1394 (option) OUT
IC3122
C0JBAZ001777
R3127
D1H84704A008
R3128
D1H84704A008
DIF_PB_FRP
PB_SSP
DIF_REC_FRP
DIF_REC_SSP
PB_BD[0-3]
CSP_CON
DV_PROC
PB_BD[0-3]
PB_DIF_FRP
PB_DIF_SSP
REC_DIF_FRP
REC_DIF_SSP
PB_DIF_BD[0-3]
(74VHC541MTCX)
R3124
1000/J3
SERVO OUT
IC3125
C0JBAZ001777
R3137
D1H84704A008
R3138
D1H84704A008
REC_TSR
PB_TRP0
PB_TRP1
PB_TRP2
SPA
SERVO_FEND
FPS0_DV_IO
FPS1_DV_IO
FPS0_DV_MPU
FPS1_DV_MPU
PB_DV_MPU
CSP_CON
DV_IO
REC_DV_MPU
R3130
R3131
PAT/J3
TSR
TRP0
TRP1
TRP2
REC_SPA
FEND
FPS0
FPS1
R3134 (74VHC541MTCX)
1000/J3
DV_MPU IN
IC3123
C0JBAZ001777
AV_DV_CLK
AV_DV_DATA
AV_DV_REQ
SV_DV_TXD
SV_CYL_PG
SV_CYL_FG
FLUSH
SLOW_H
MOTHER
REC/PB_DV_MPU
AV_SIO_CLK_IN
AV_SIO_IN
AV_SIO_REQ
TXD_SV
CYL_PG
CYL_FG
DV_FLUSH
DV_SLOW_H
DV_PROC
REC/PB_DV_MPU, VBLK_CON
R3123 (74VHC541MTCX)
1000/J3
1394 (option) OUT
IC3126
C0JBAZ001777
R3139
D1H84704A008
DIF_SIO_OUT
DIF_SIO_RDY_L
PB_SYS_DATA_DIF
PB_SYS_CTL_DIF
CLK18_DIF
PB_DV_MPU
DV_PROC
PLL_VCO
DV_DIF_DATA
DV_DIF_RDY_L
PB_SYS_DATA
PB_SYS_CTL
DIF_CLK18
R3140 22/J3
R3135 (74VHC541MTCX)
1000/J3
VCC_V
R3129
D1H84734A008
DV_MPU IN
IC3127
C0JBAZ001777
CUEREV_H
LIN_H
STILL_H
TAPE_REV_H
DIF_DV_DATA
DIF_DV_CLK
DIF_DV_SEL_REC_L
DV_CUEREV_H
DV_LIN_H
DV_STILL_H
DV_TAPE_REV_H
DIF_SIO_IN
DIF_SIO_CLK_IN
DIF_SIO_REC_L
R3132
1000/J3
(74VHC541MTCX)
C3121 0.1/UFV
C3122 0.1/UFV
C3123 0.1/UFV
C3124 0.1/UFV
C3125 0.1/UFV
C3126 0.1/UFV
C3127 0.1/UFV
IC3121 C0JBAZ001777
IC3122 C0JBAZ001777
IC3123 C0JBAZ001777
IC3124 C0JBAZ001777
IC3125 C0JBAZ001777
IC3126 C0JBAZ001777
IC3127 C0JBAZ001777
Ref No. 3121-3170
COMPONENT NAME
F4:D PROC (IOBUF_V)
05/27
CIRCUIT BOARD NO.
VEP83554B
DRAWING NO.
KR30088 (5/27)
SCM034



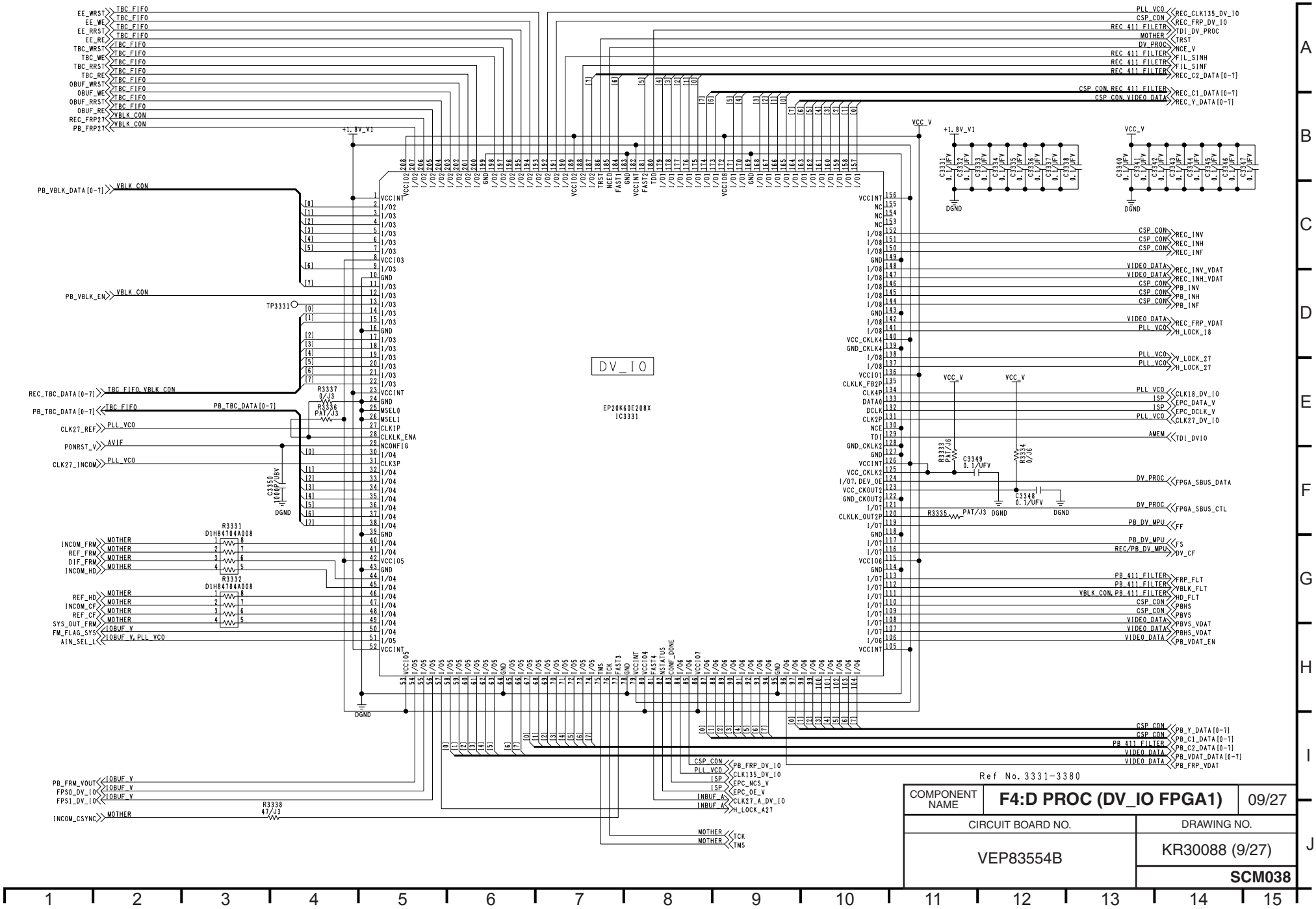
Ref. No. 3171-3220

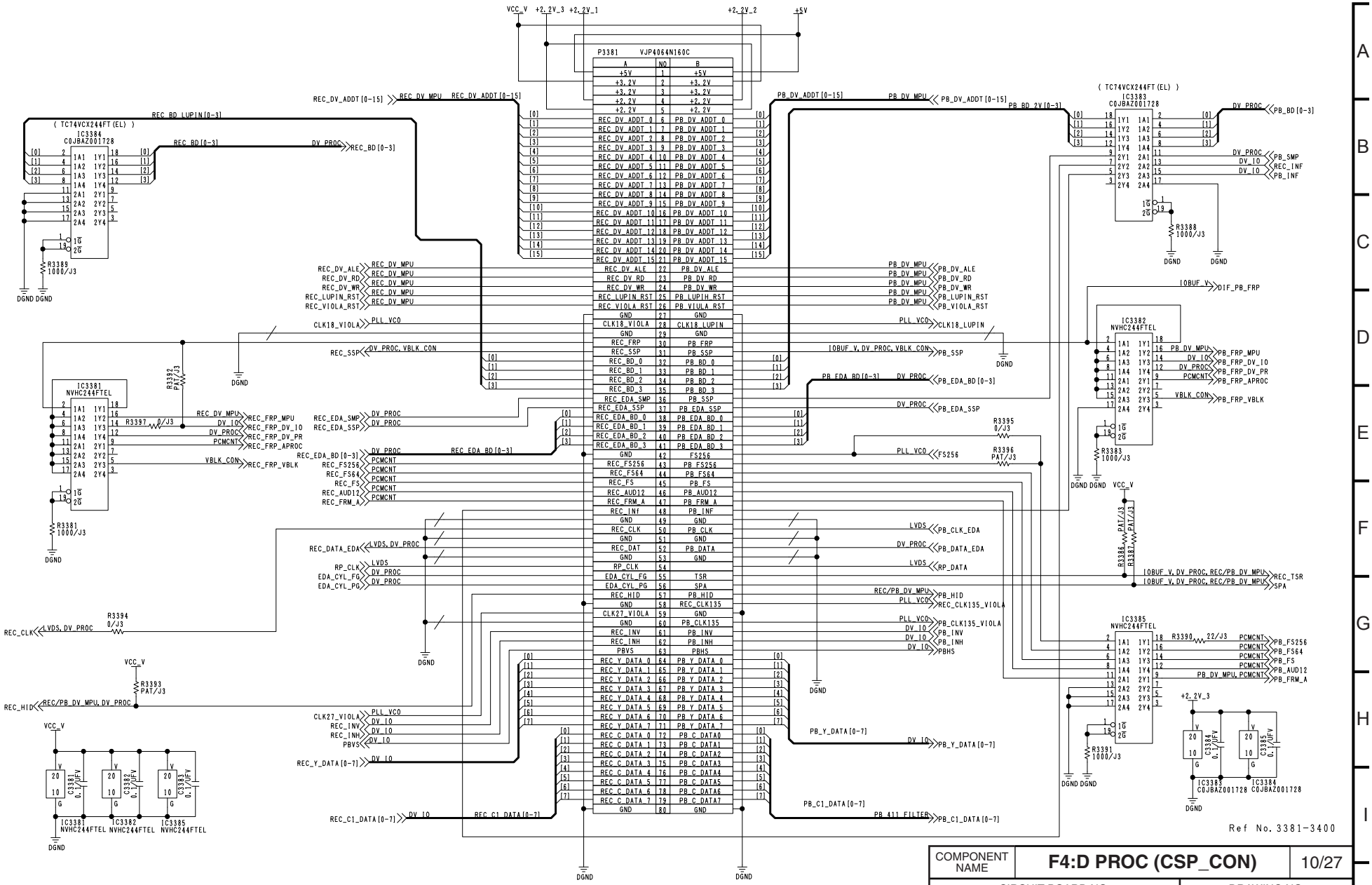
COMPONENT NAME	F4:D PROC (IOBUF_A)	06/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088 (6/27)
		SCM035


IC3222 BH7086KV
IC3223 C0JBAB000422 (SN74AHC1GU04DCKR)
IC3227 C0JBAZ000280 (TC7WH241FUTL)
IC3228 C0JBAZ000545
IC3229 C0JBAZ000545
IC3230 C0JBAZ000545
IC3231 C0JBAR000331
IC3232 C0JBAZ000545
IC3233 C0JBAZ000545
IC3234 C0JBAZ000545
IC3221 NJM082BV-TE1
IC3224 NJM082BV-TE1
(74LCX244MTCX)
(74LCX257MTCX)
V_LOCK_27
H_LOCK_27
H_LOCK_18
27SEL1
27SEL0
AIN_SEL_L
INCOM_CLK27
SINCOM_CLK27
REF_CLK27
PB_CLK135_VIOLA
REC_CLK135_VIOLA
CLK18_LUPIN
AUD_VCO_L
REC_FS256
CLK18_VIOLA
CLK18_DIF
CLK18_DV_IO
CLK18_EE_FIFO
CLK18_VDAT
CLK18_VBLK
CLK18_APROC
CLK18_DV_PROC
CLK27_INCOM
CLK27_REF_A
CLK27_REF
CLK27_REF_MPU
CLK135_DV_IO
CLK135_VDAT
CLK135_VBLK
CLK135_REC_FLT
CLK135_PB_FLT
CLK27_REC_DV_MPU
CLK27_PB_DV_MPU
CLK27_VIOLA
CLK27_DV_IO
CLK27_APROC
CLK27_TBC_RCK
CLK27_OBUF_WCK
CLK27_VBLK
Ref No. 3221-3300
COMPONENT NAME
F4:D PROC (PLL_VCO)
07/27
CIRCUIT BOARD NO.
VEP83554B
DRAWING NO.
KR30088 (7/27)
SCM036

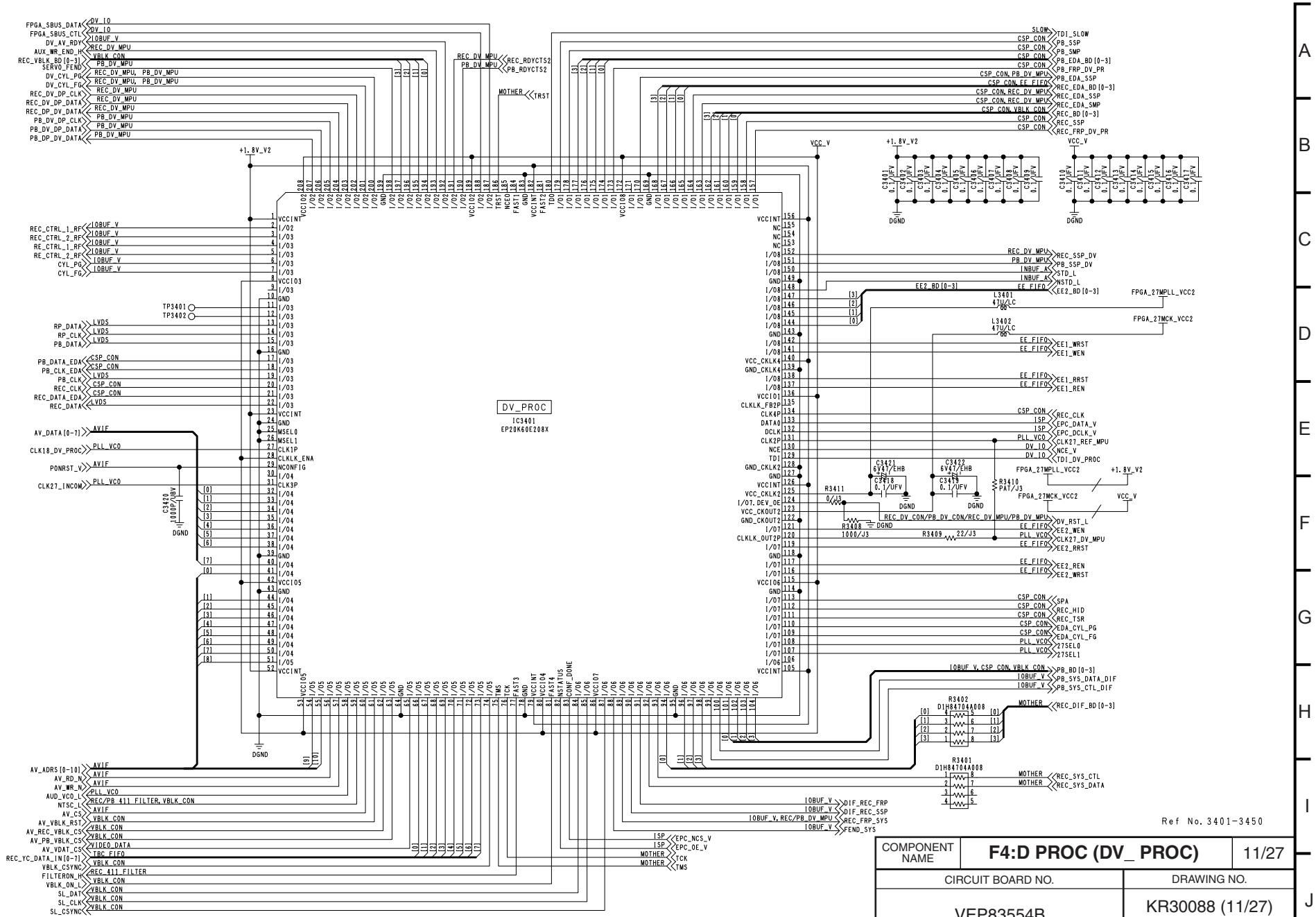


COMPONENT NAME	F4:D PROC (TBC_FIFO)	08/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088 (8/27)
		SCM037

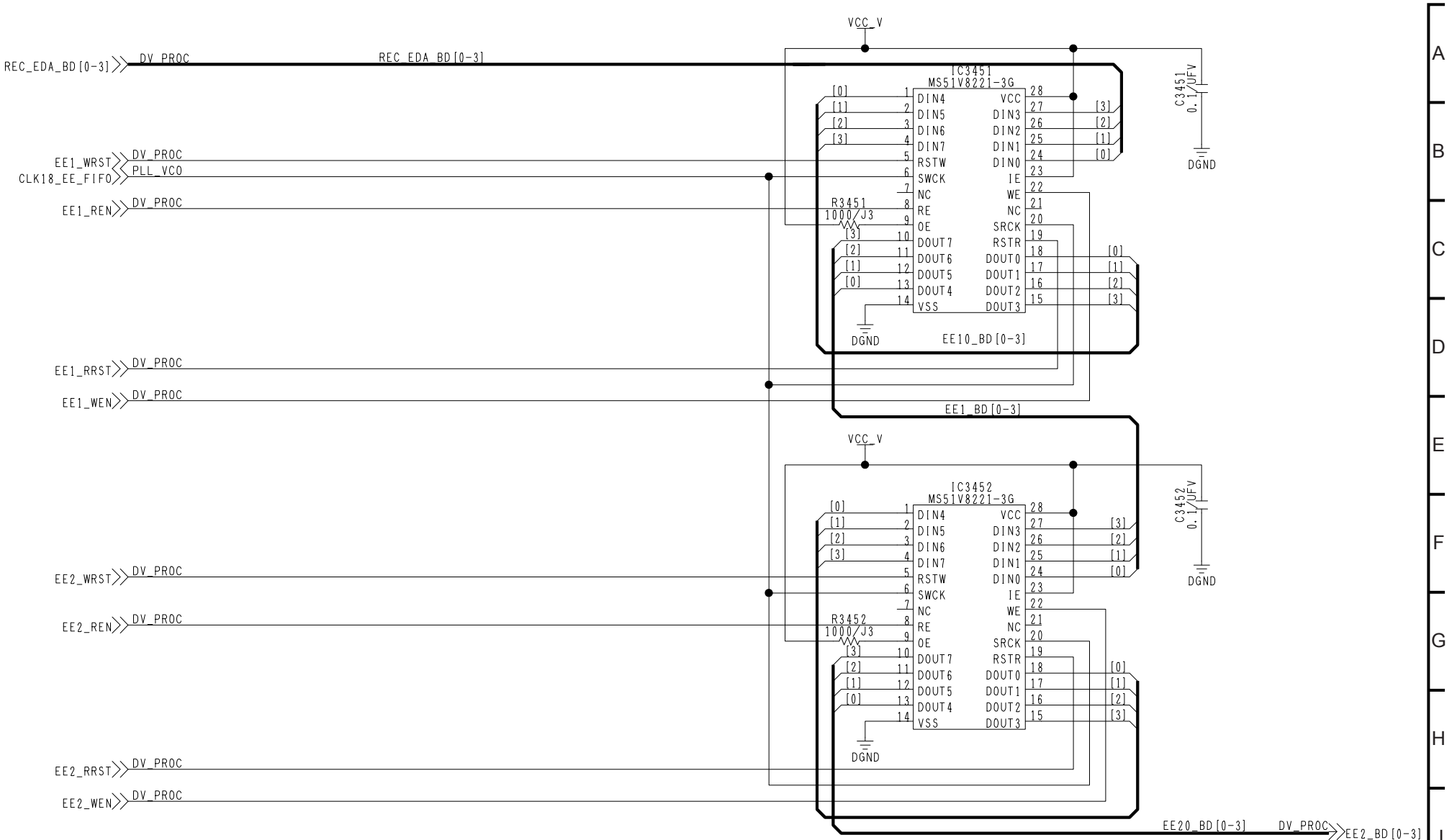

DV_IO
EP20K60E208X
IC3331
Ref No. 3331-3380
COMPONENT NAME
F4:D PROC (DV_IO FPGA1)
09/27
CIRCUIT BOARD NO.
VEP83554B
DRAWING NO.
KR30088 (9/27)
SCM038



COMPONENT NAME	F4:D PROC (CSP_CON)	10/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088 (10/27)
		SCM039

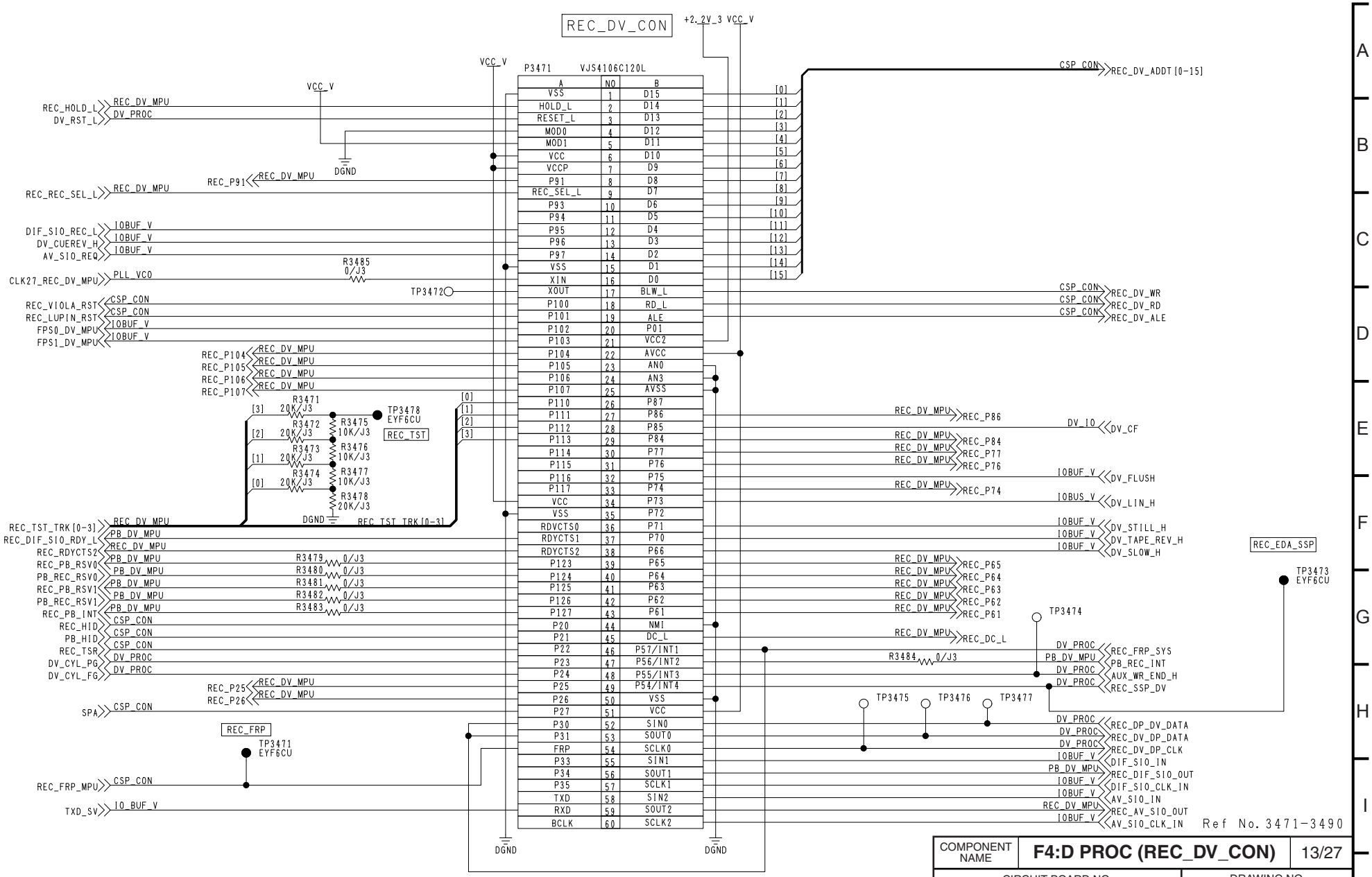


COMPONENT NAME	F4:D PROC (DV_ PROC)	11/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088 (11/27)
		SCM040

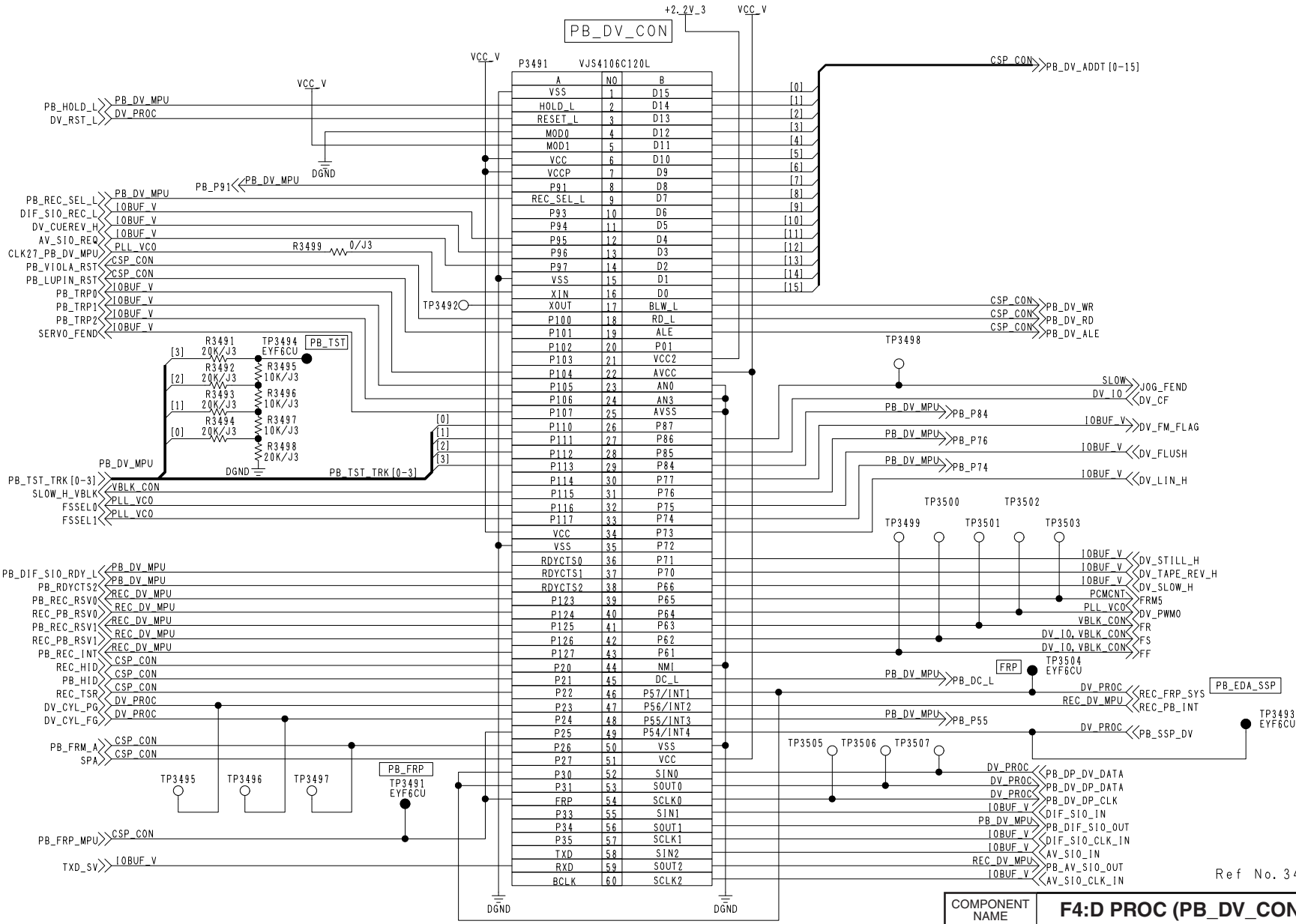


Ref No. 3451-3470

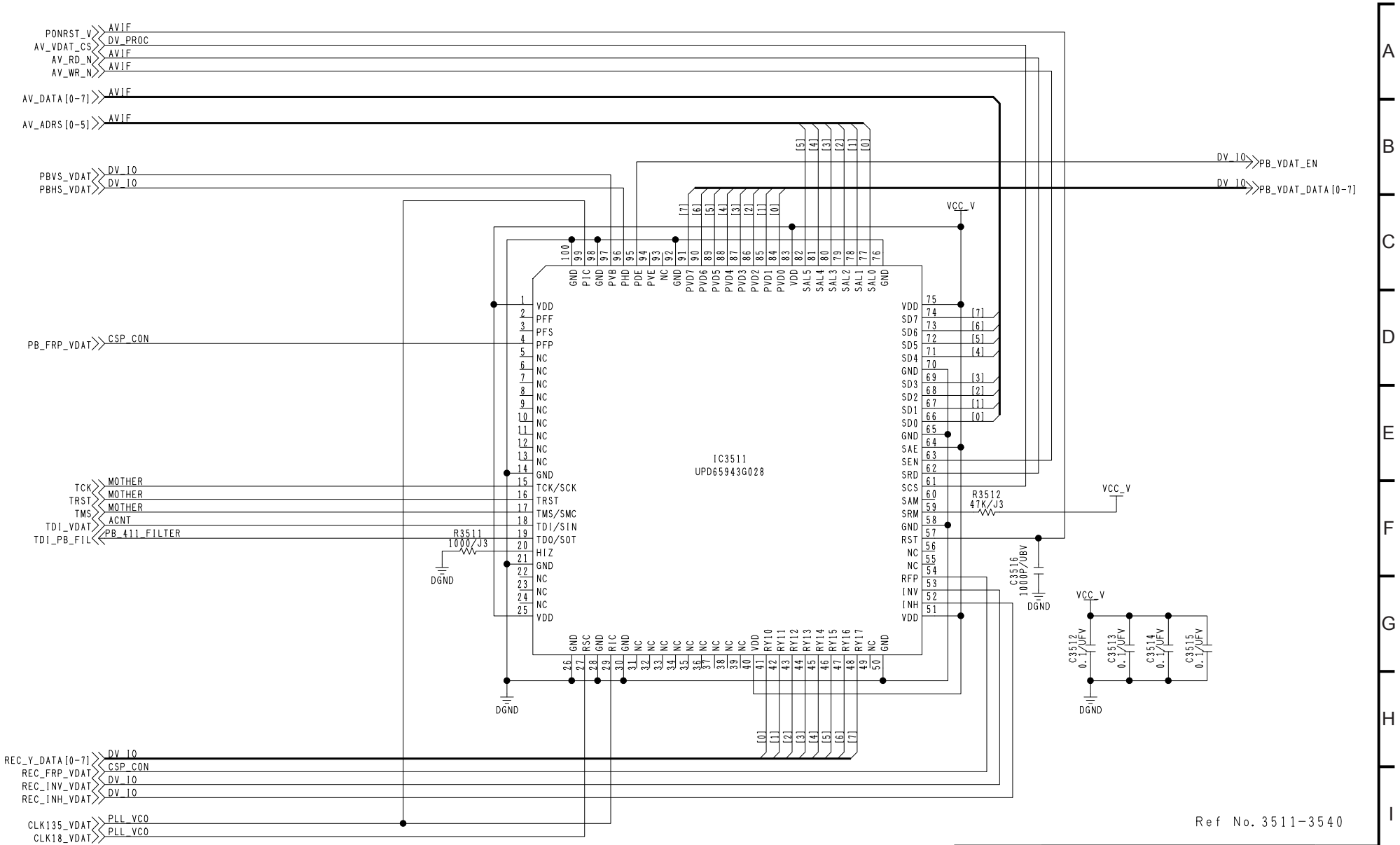
COMPONENT NAME	F4:D PROC (EE_FIFO)	12/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088 (12/27)
		SCM041



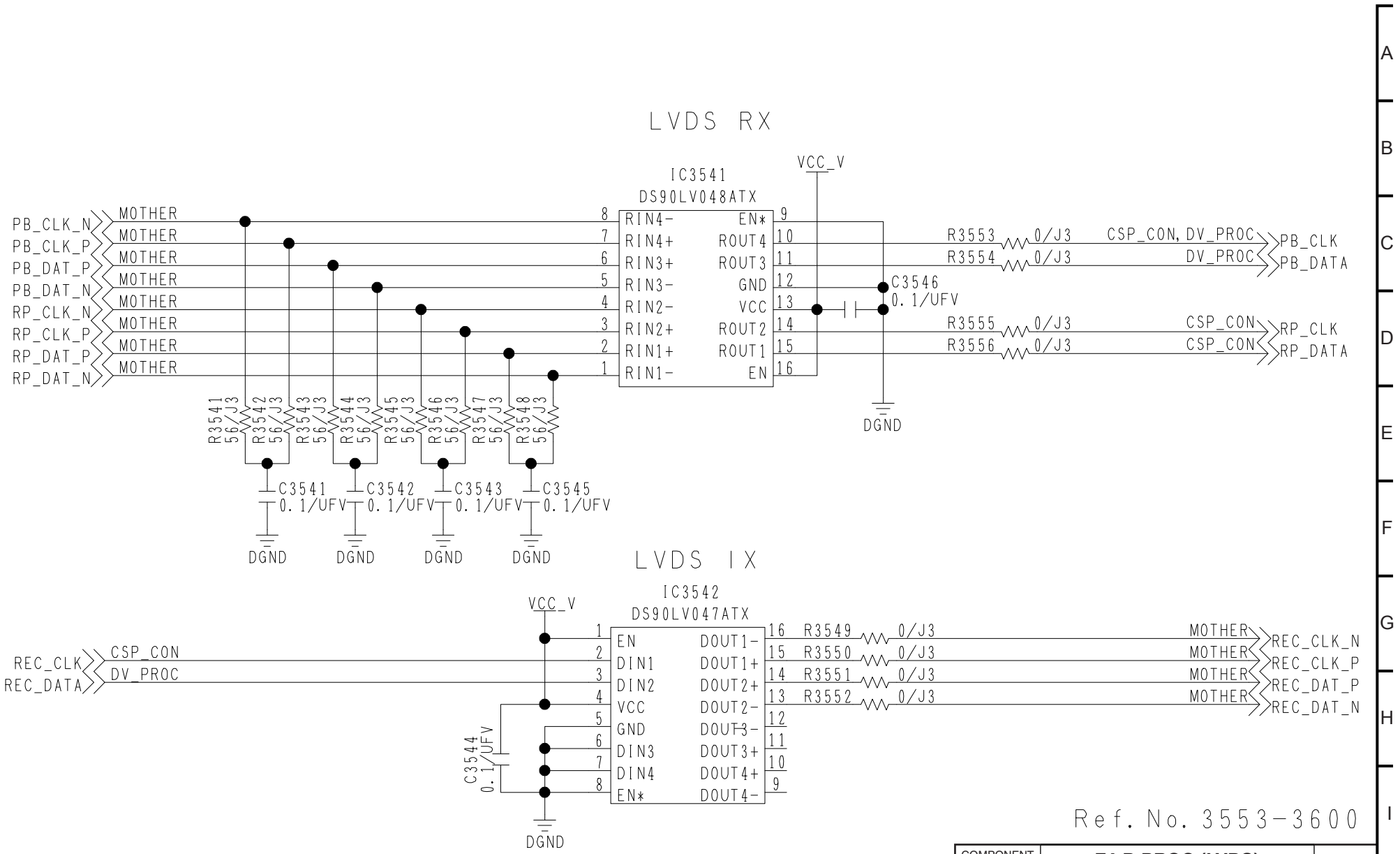
COMPONENT NAME	F4:D PROC (REC_DV_CON)	13/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088 (13/27)
		SCM042



COMPONENT NAME	F4:D PROC (PB_DV_CON)	14/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088 (14/27)
		SCM043

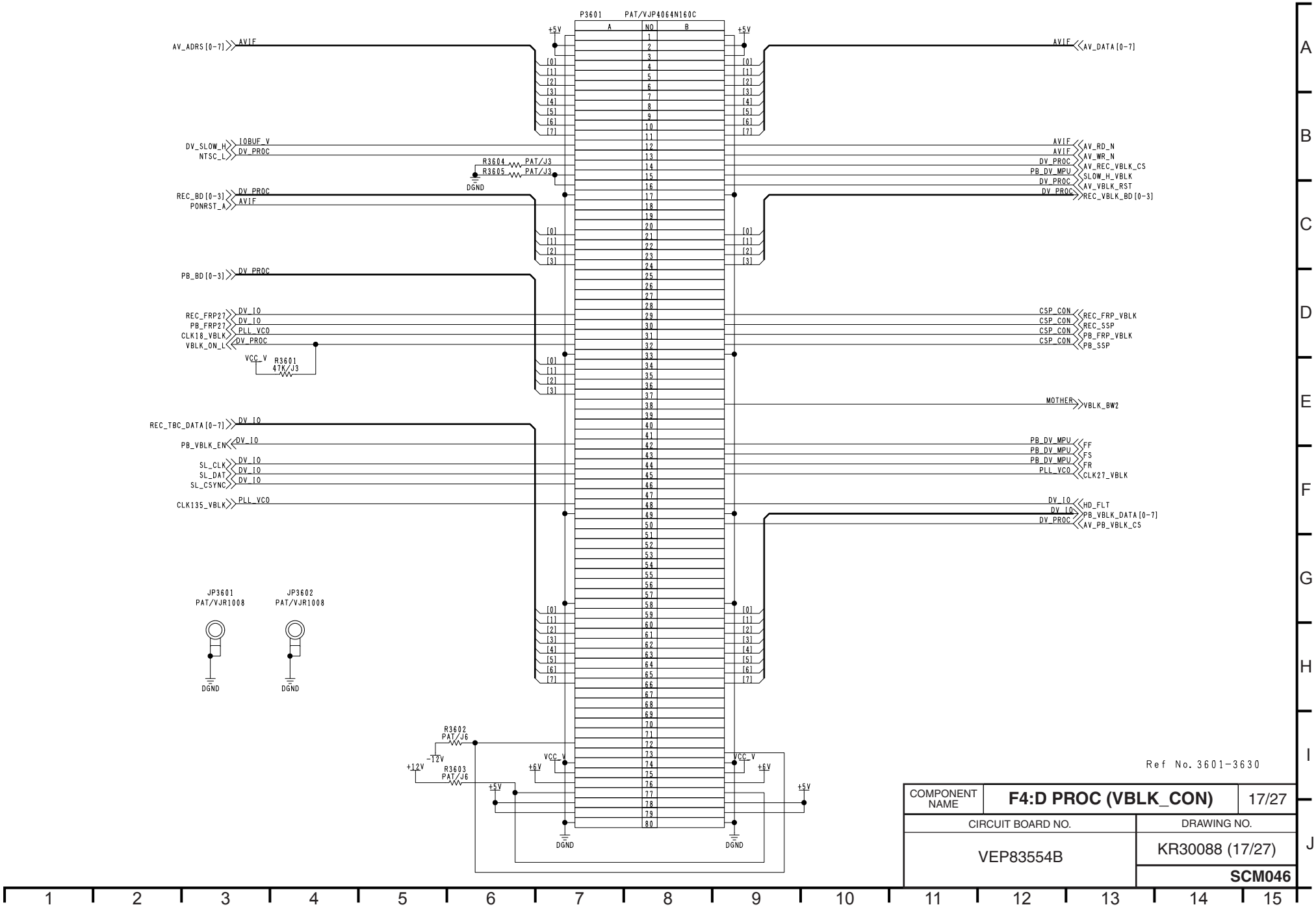


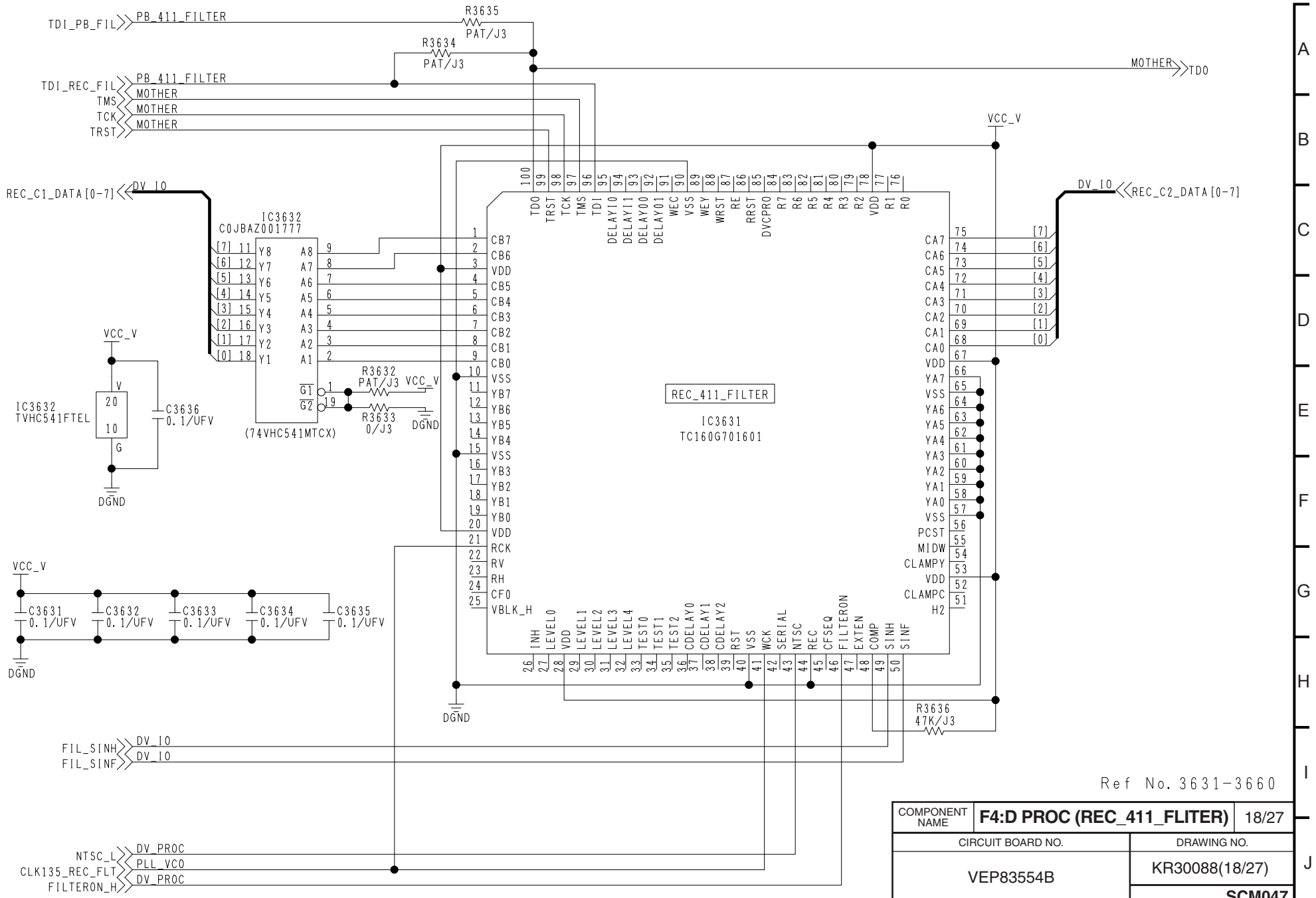
COMPONENT NAME	F4:D PROC (VIDEO DATA VITC/CC)	15/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088 (15/27)
		SCM044



Ref. No. 3553-3600

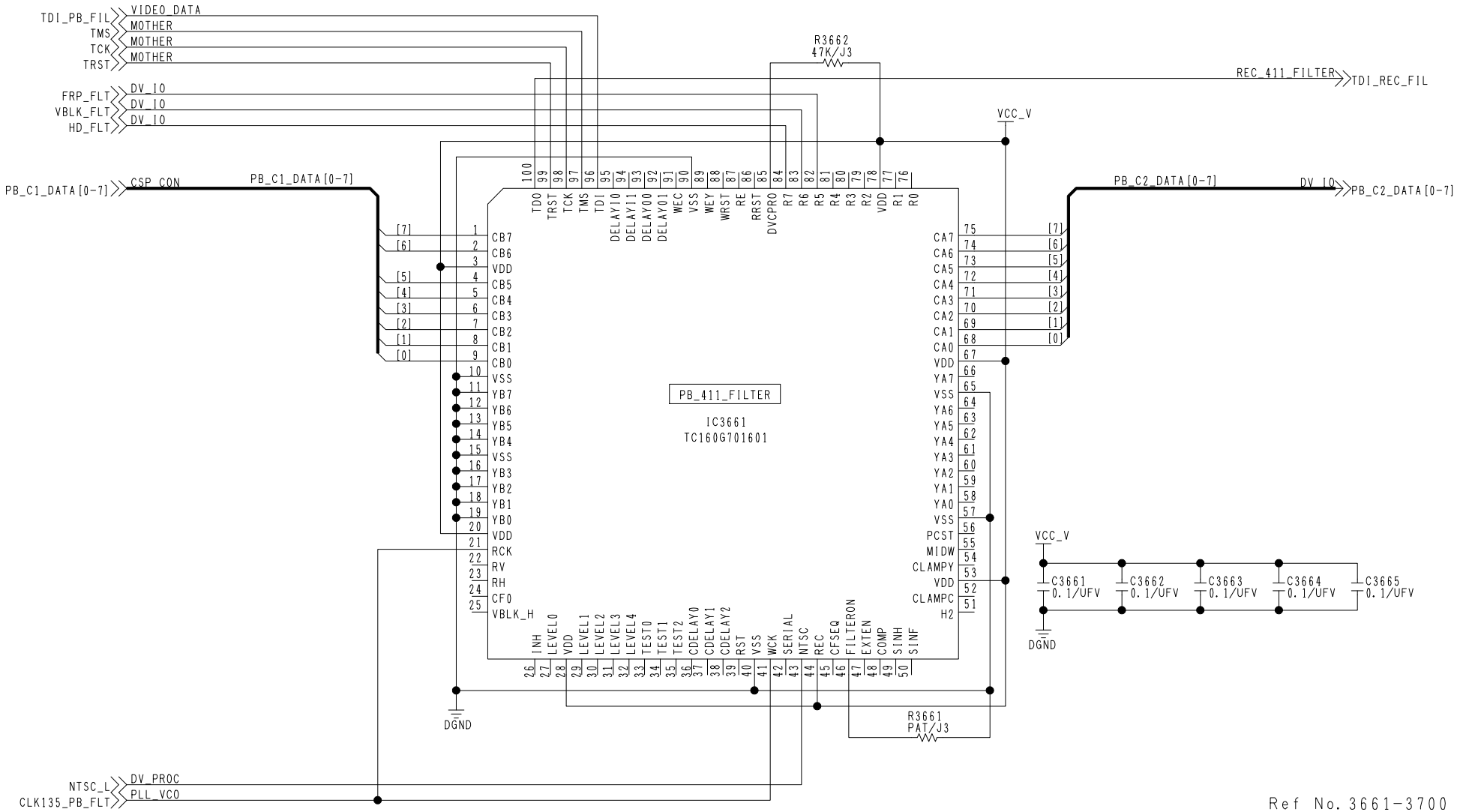
COMPONENT NAME	F4:D PROC (LVDS)	16/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088 (16/27)
		SCM045


P3601 PAT/VJP4064N160C
A NO B
AV_ADRS[0-7]
AVIF
AV_DATA[0-7]
DV_SLOW_H
NTSC_L
IOBUF_V
DV_PROC
R3604 PAT/J3
R3605 PAT/J3
DGND
REC_BD[0-3]
PONRST_A
AV_RD_N
AV_WR_N
AV_REC_VBLK_CS
SLOW_H_VBLK
AV_VBLK_RST
REC_VBLK_BD[0-3]
PB_BD[0-3]
REC_FRP27
PB_FRP27
CLK18_VBLK
VBLK_ON_L
PLL_VCO
VCC_V
R3601 47K/J3
CSP_CON
REC_FRP_VBLK
REC_SSP
PB_FRP_VBLK
PB_SSP
REC_TBC_DATA[0-7]
PB_VBLK_EN
SL_CLK
SL_DAT
SL_CSYNC
CLK135_VBLK
MOTHER
VBLK_BW2
PB_DV_MPU
FF
FS
FR
CLK27_VBLK
HD_FLT
PB_VBLK_DATA[0-7]
AV_PB_VBLK_CS
JP3601 PAT/VJR1008
JP3602 PAT/VJR1008
R3602 PAT/J6
R3603 PAT/J6
+5V
+6V
+12V
-12V
Ref No. 3601-3630
COMPONENT NAME
F4:D PROC (VBLK_CON)
17/27
CIRCUIT BOARD NO.
VEP83554B
DRAWING NO.
KR30088 (17/27)
SCM046



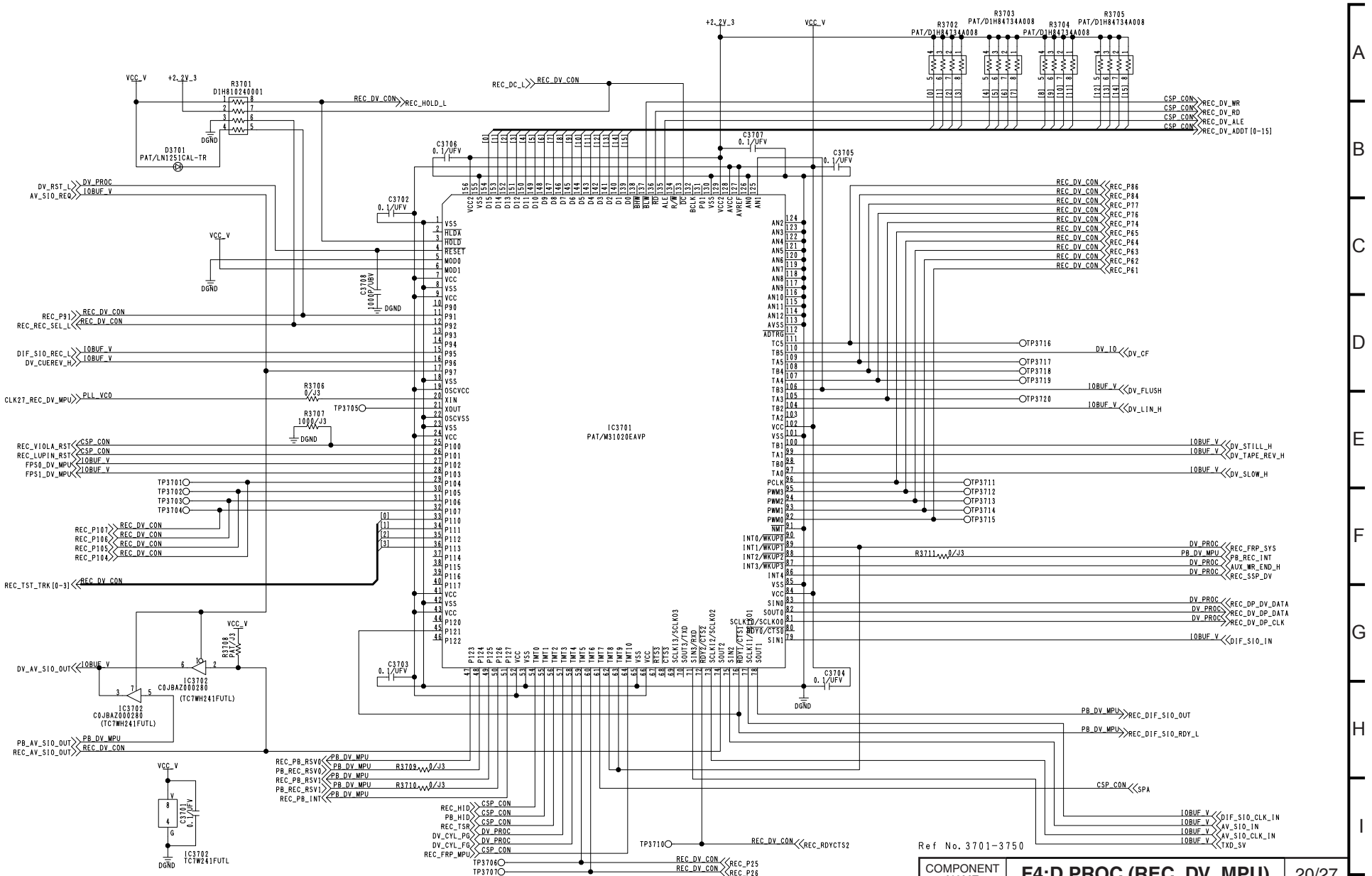
Ref No. 3631-3660

COMPONENT NAME	F4:D PROC (REC_411_FLITER)	18/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088(18/27)
		SCM047

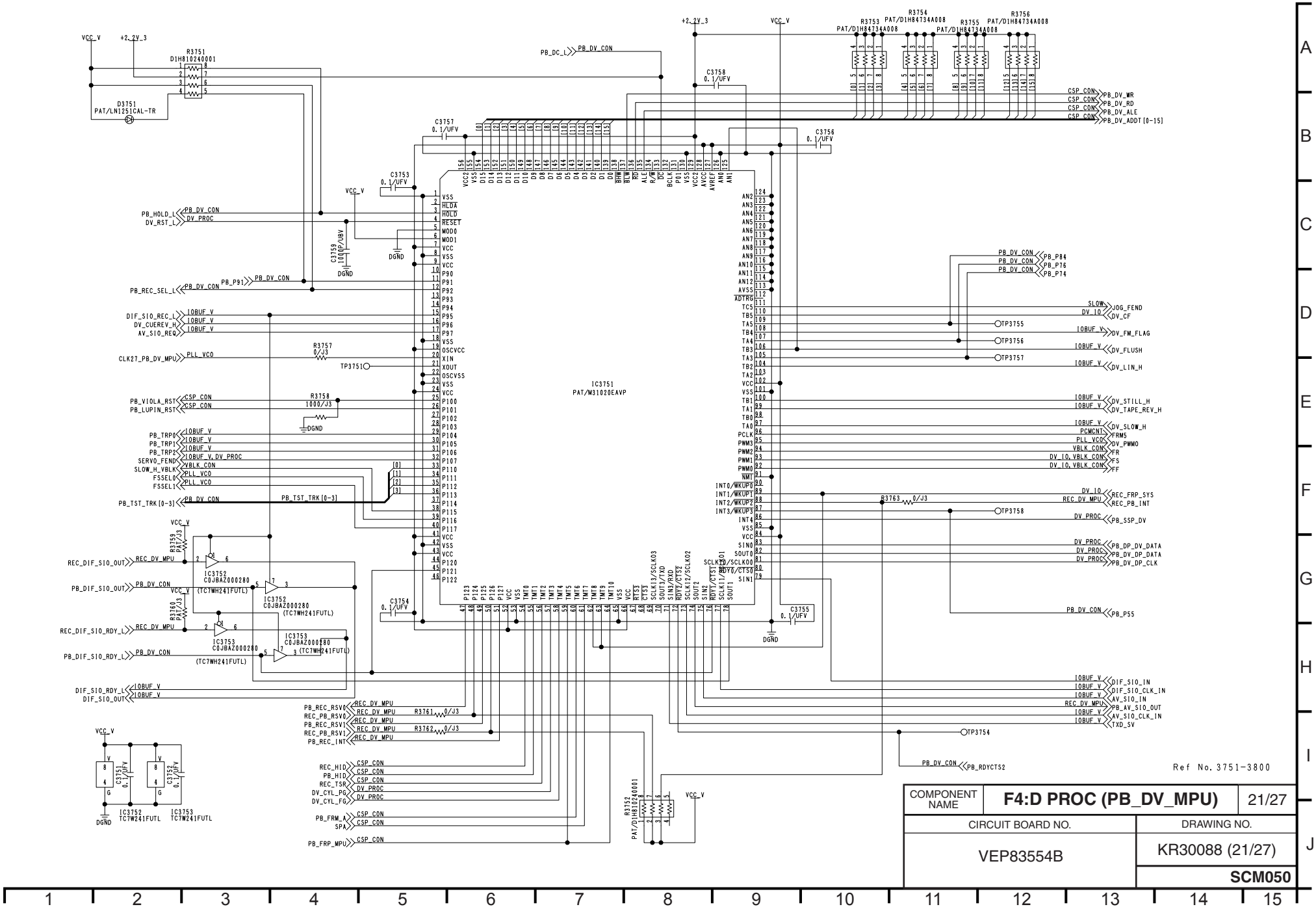


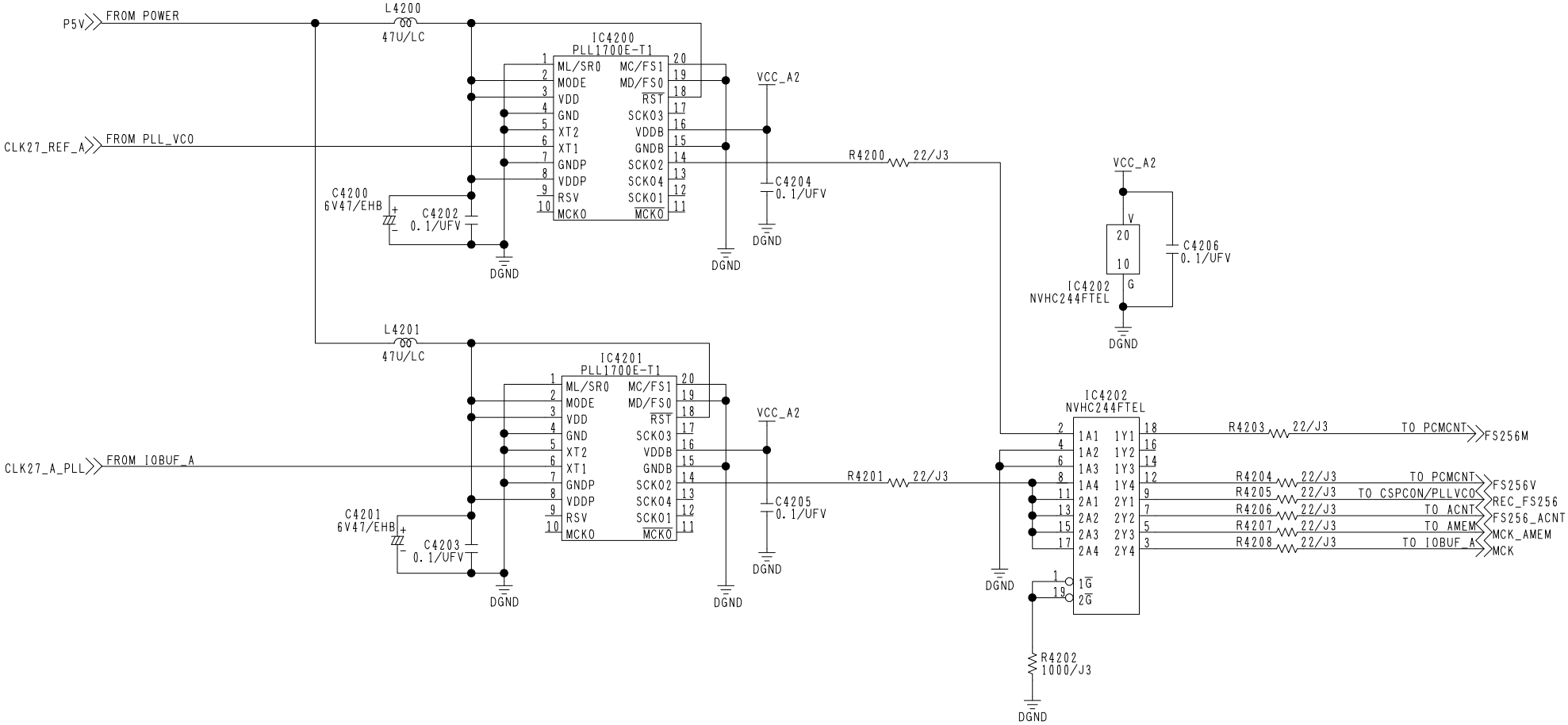
Ref No. 3661-3700

COMPONENT NAME	F4:D PROC (PB_411_FILTER)	19/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088 (19/27)
		SCM048



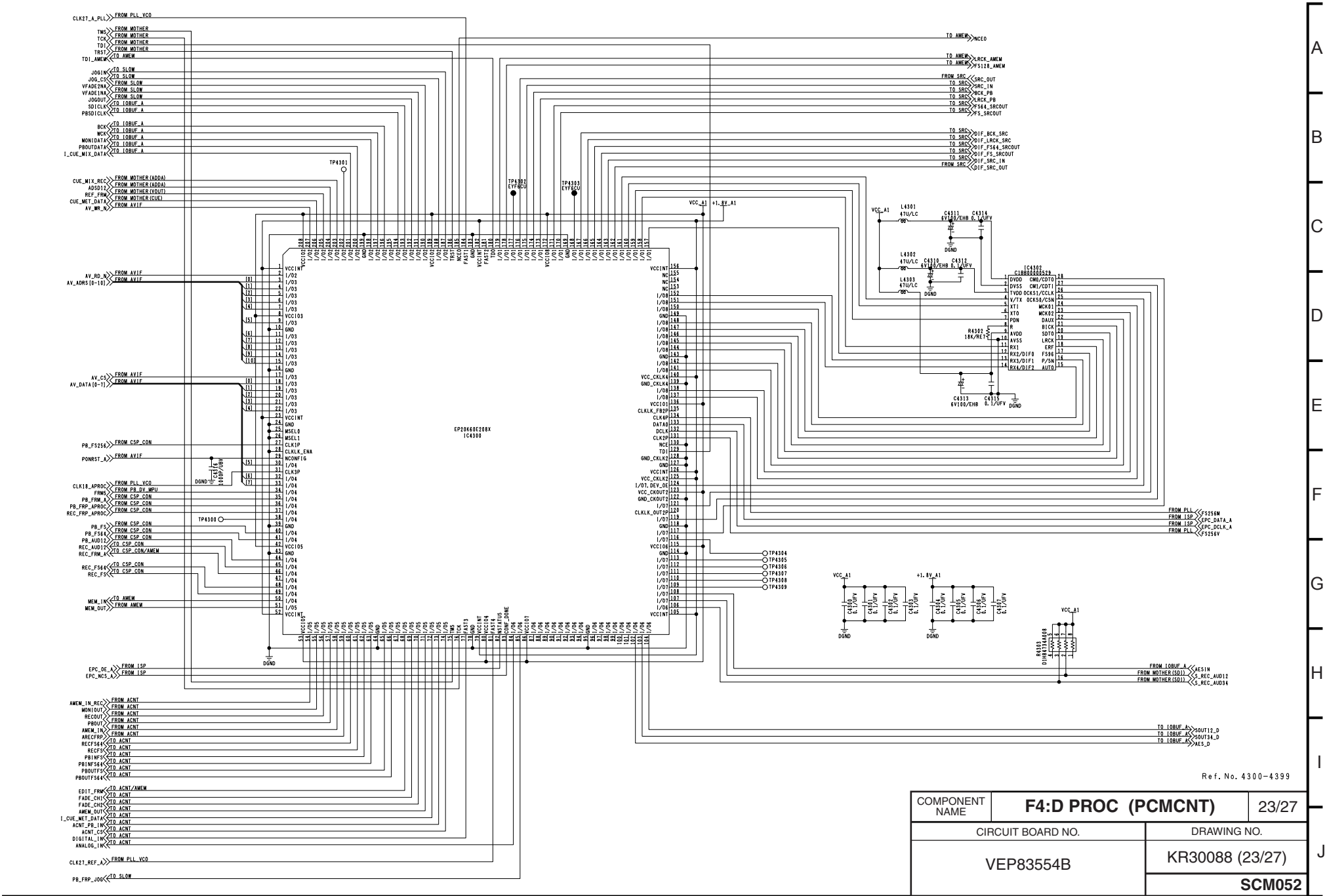
COMPONENT NAME	**F4:D PROC (REC_DV_MPU)**	20/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088 (20/27)
		SCM049


IC3751
PAT/M31020EAVP
R3751
D1H810240001
D3751
PAT/LN1251CAL-TR
R3753
PAT/D1H84734A008
R3754
PAT/D1H84734A008
R3755
PAT/D1H84734A008
R3756
PAT/D1H84734A008
C3751
C3752
C3753
C3754
C3755
C3756
C3757
C3758
R3757
R3758
R3759
R3760
R3761
R3762
R3763
R3752
D1H810240001
IC3752
C0JBAZ000280
(TC7WH241FUTL)
IC3753
C0JBAZ000280
(TC7WH241FUTL)
TP3751
TP3754
TP3755
TP3756
TP3757
TP3758
VCC_V
+2.2V_3
DGND
PB_DV_CON
PB_DC_L
PB_HOLD_L
DV_RST_L
PB_REC_SEL_L
PB_P91
DIF_SIO_REC_L
DV_CUEREV_H
AV_SIO_REQ
CLK27_PB_DV_MPU
PLL_VCO
PB_VIOLA_RST
PB_LUPIN_RST
CSP_CON
PB_TRP0
PB_TRP1
PB_TRP2
SERVO_FEND
SLOW_H_VBLK
FSSEL0
FSSEL1
PB_TST_TRK[0-3]
REC_DIF_SIO_OUT
PB_DIF_SIO_OUT
REC_DIF_SIO_RDY_L
PB_DIF_SIO_RDY_L
DIF_SIO_RDY_L
DIF_SIO_OUT
REC_DV_MPU
PB_REC_RSV0
PB_REC_RSV1
PB_REC_INT
REC_HID
PB_HID
REC_TSR
DV_CYL_PG
DV_CYL_FG
PB_FRM_A
PB_FRP_MPU
SPA
PB_DV_WR
PB_DV_RD
PB_DV_ALE
PB_DV_ADDT[0-15]
PB_P84
PB_P76
PB_P74
PB_P55
SLOW
DV_IO
JOG_FEND
DV_CF
DV_FM_FLAG
DV_FLUSH
DV_LIN_H
DV_STILL_H
DV_TAPE_REV_H
DV_SLOW_H
PCMCNT
FRM5
DV_PWMO
VBLK_CON
FR
FS
FF
REC_FRP_SYS
REC_PB_INT
DV_PROC
PB_SSP_DV
PB_DP_DV_DATA
PB_DV_DP_DATA
PB_DV_DP_CLK
DIF_SIO_IN
DIF_SIO_CLK_IN
AV_SIO_IN
PB_AV_SIO_OUT
AV_SIO_CLK_IN
TXD_SV
PB_RDYCTS2
Ref No. 3751-3800
COMPONENT NAME
F4:D PROC (PB_DV_MPU)
21/27
CIRCUIT BOARD NO.
VEP83554B
DRAWING NO.
KR30088 (21/27)
SCM050

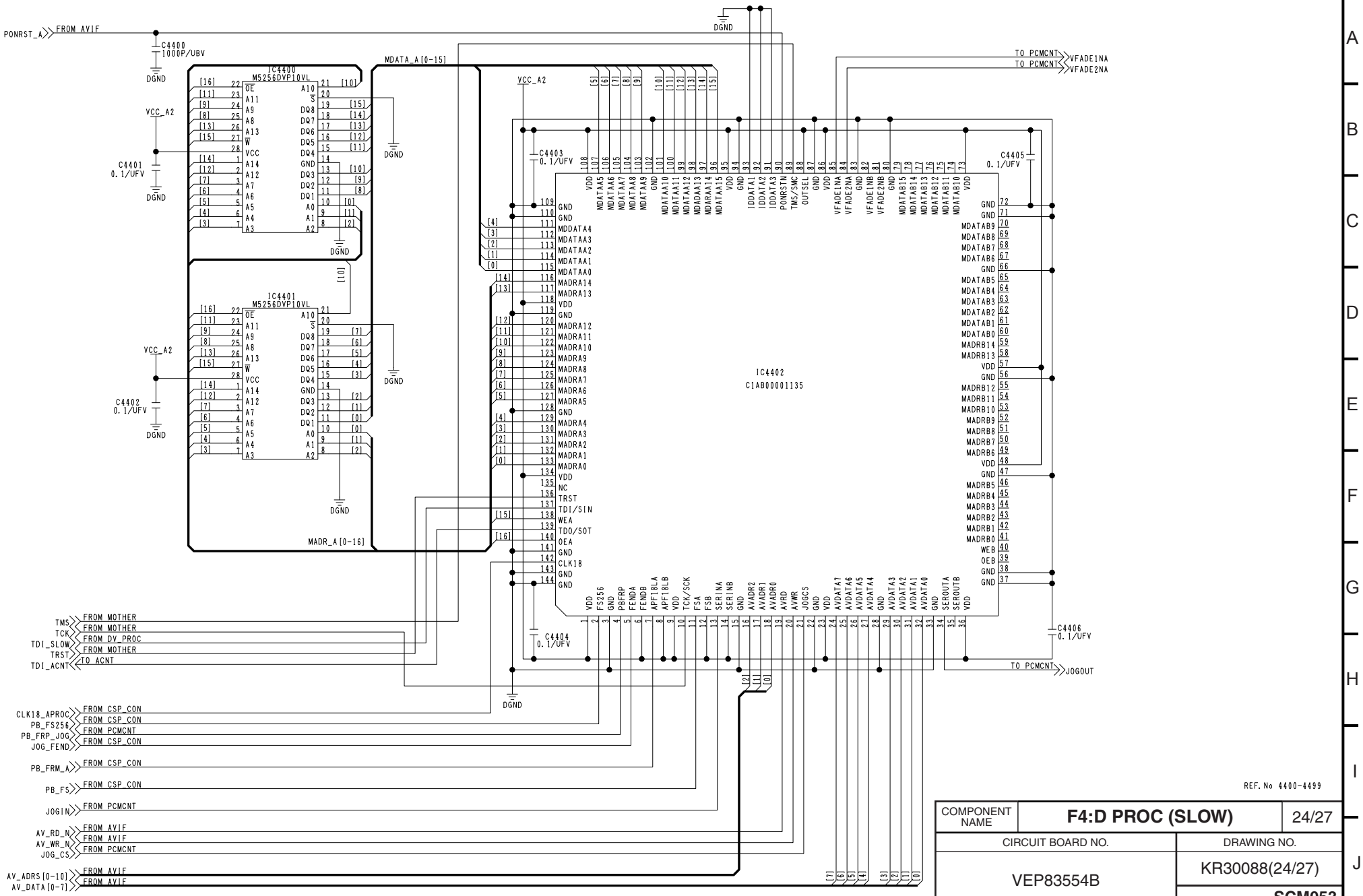


Ref. No. 4200–4299

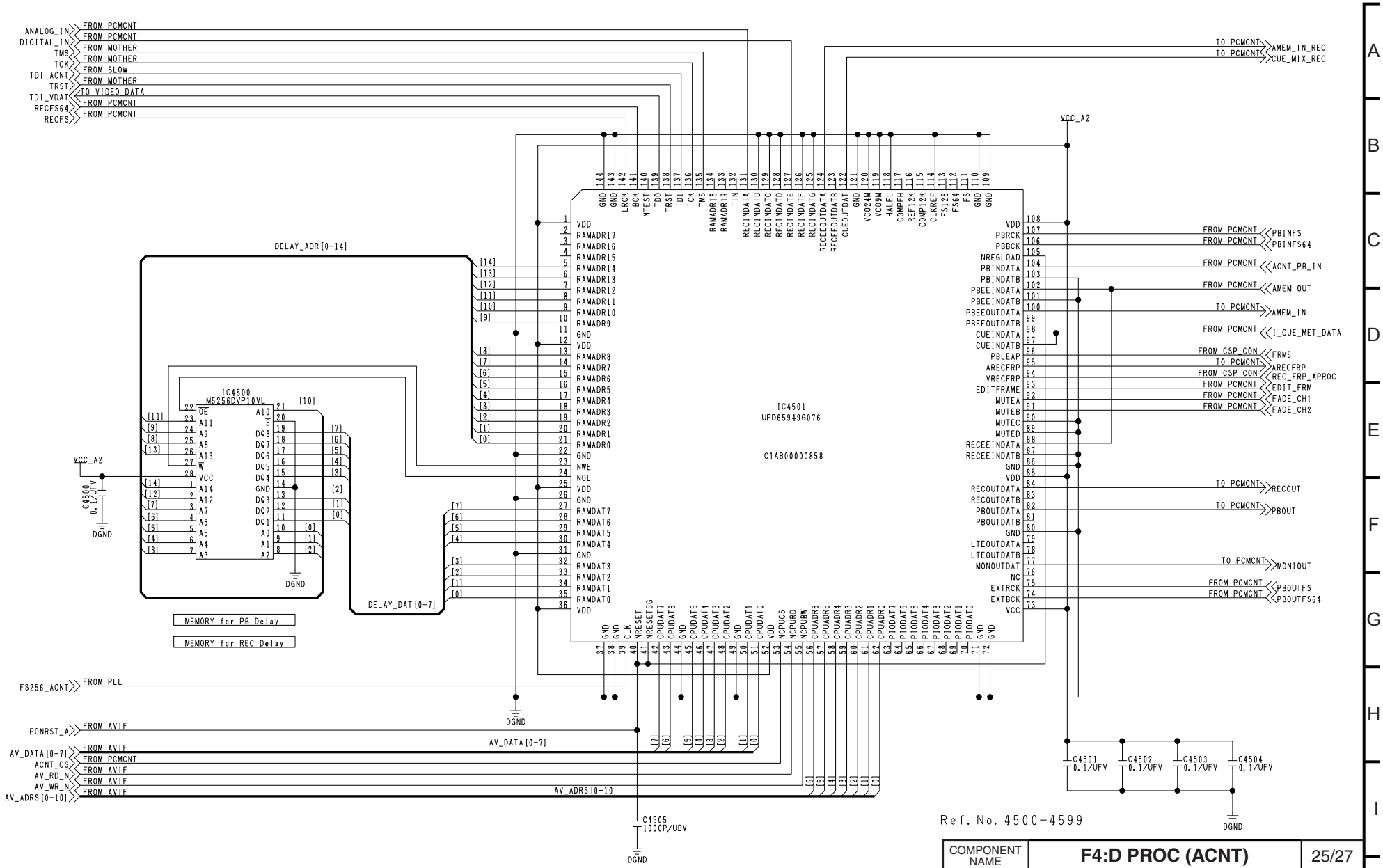
COMPONENT NAME	F4:D PROC (PLL)	22/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088 (22/27)
		SCM051



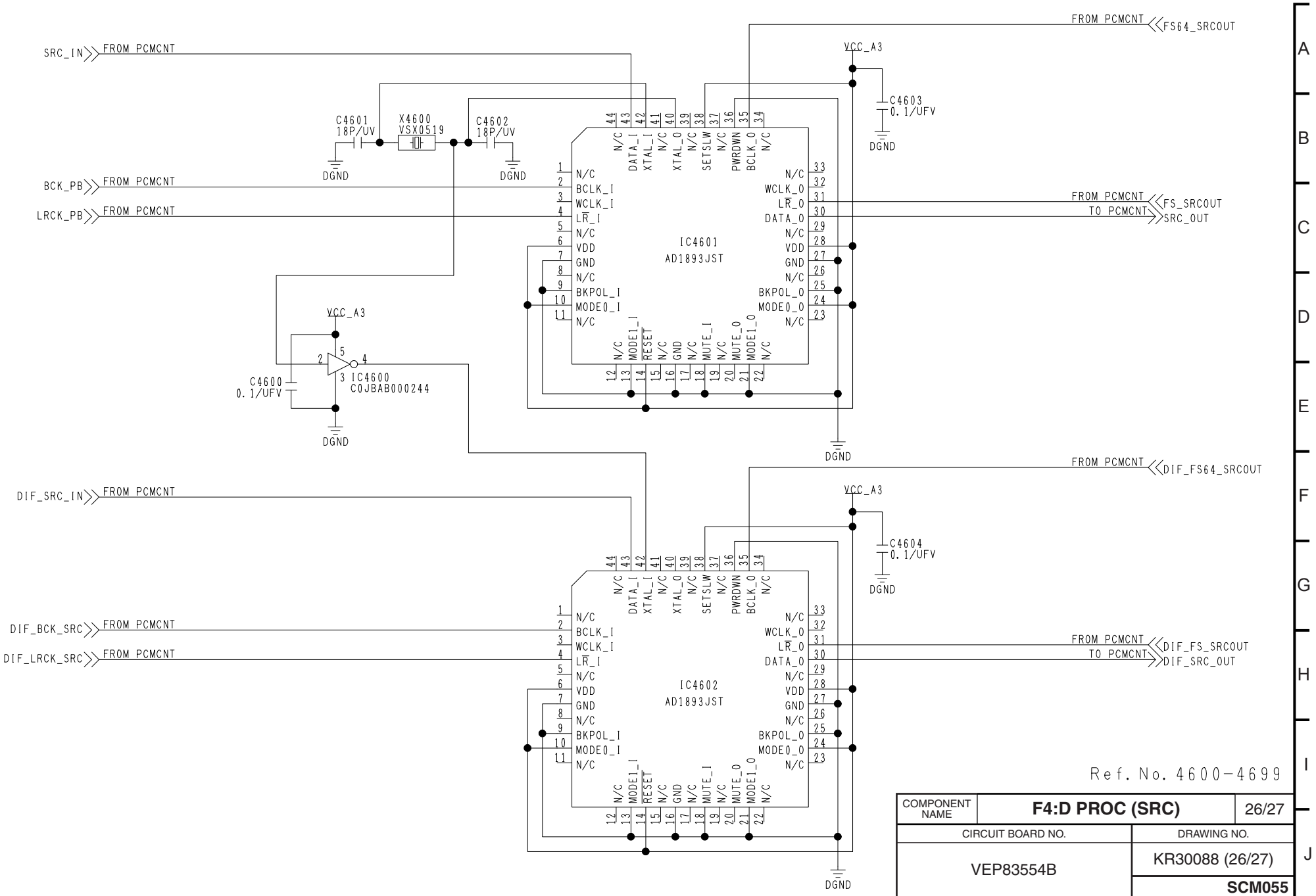
COMPONENT NAME	**F4:D PROC (PCMCNT)**	23/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554B	KR30088 (23/27)	
	SCM052	

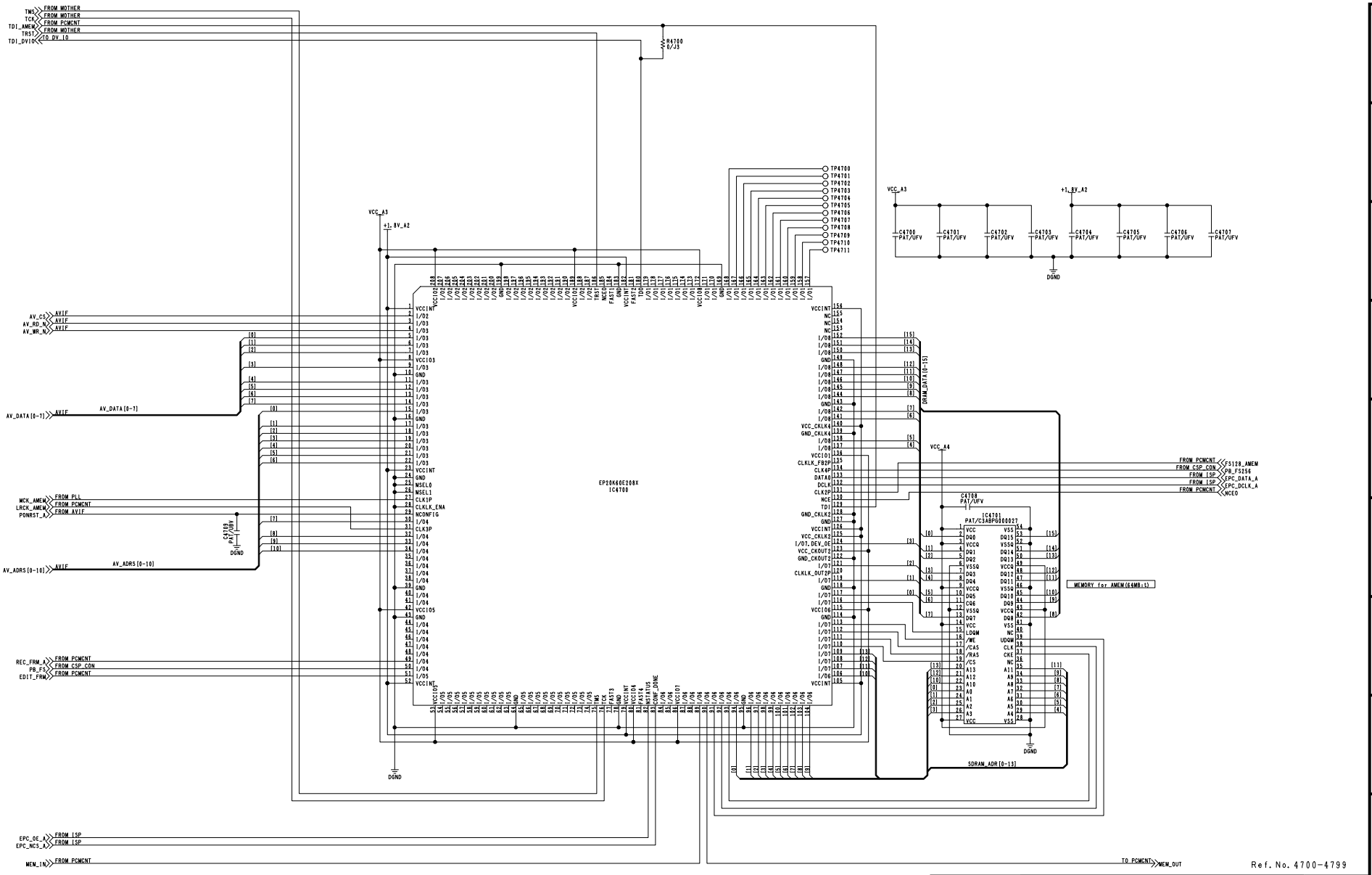


COMPONENT NAME	F4:D PROC (SLOW)	24/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088(24/27)
		SCM053



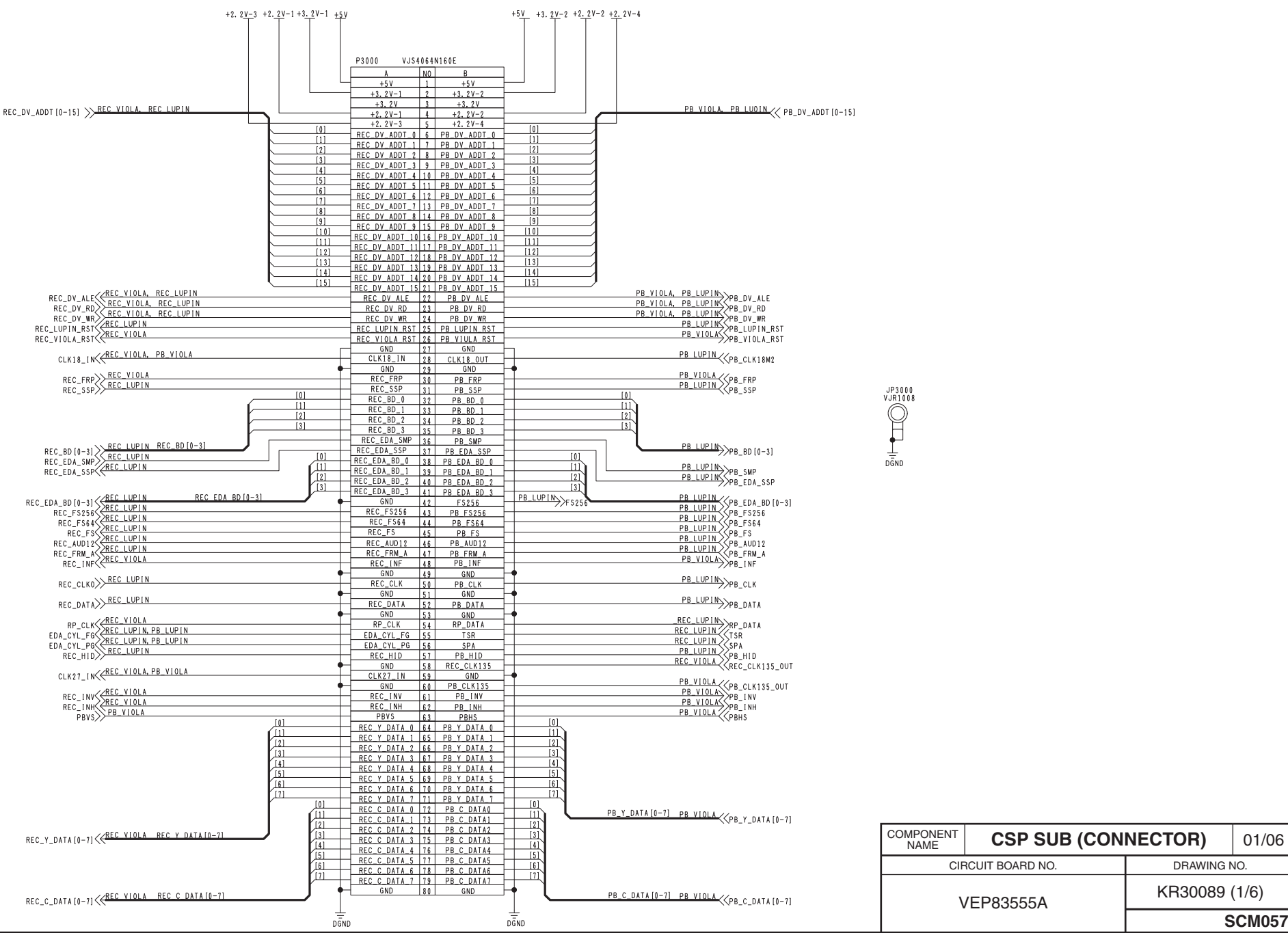
COMPONENT NAME	F4:D PROC (ACNT)	25/27
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83554B	KR30088 (25/27)	
	SCM054	


SRC_IN
FROM PCMCNT
BCK_PB
LRCK_PB
C4601
18P/UV
X4600
VSX0519
C4602
18P/UV
DGND
VCC_A3
C4603
0.1/UFV
IC4601
AD1893JST
FROM PCMCNT
FS64_SRCOUT
FS_SRCOUT
SRC_OUT
TO PCMCNT
C4600
0.1/UFV
IC4600
C0JBAB000244
DIF_SRC_IN
DIF_BCK_SRC
DIF_LRCK_SRC
C4604
0.1/UFV
IC4602
AD1893JST
DIF_FS64_SRCOUT
DIF_FS_SRCOUT
DIF_SRC_OUT
Ref. No. 4600-4699
COMPONENT NAME
F4:D PROC (SRC)
26/27
CIRCUIT BOARD NO.
VEP83554B
DRAWING NO.
KR30088 (26/27)
SCM055

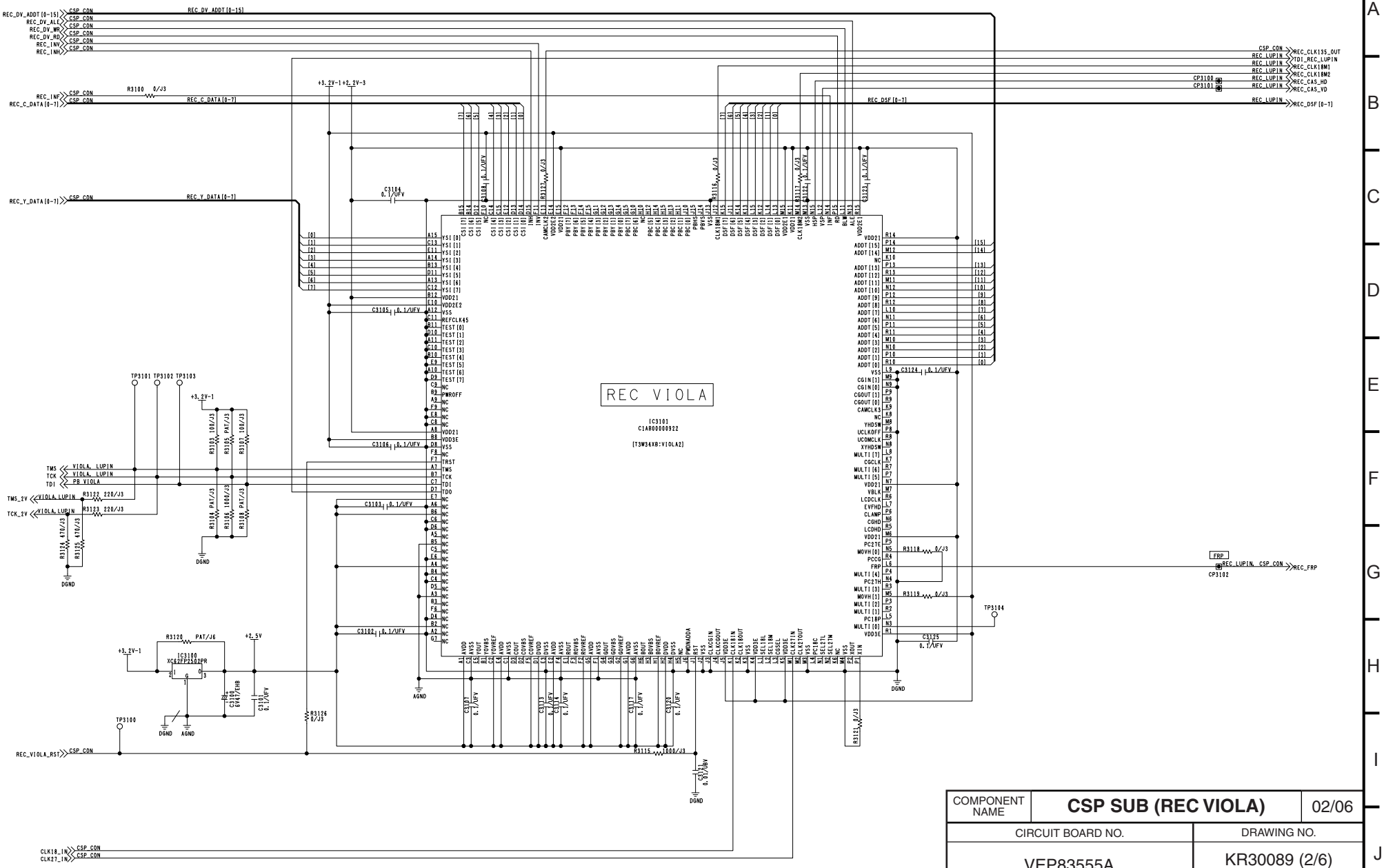


Ref. No. 4700-4799

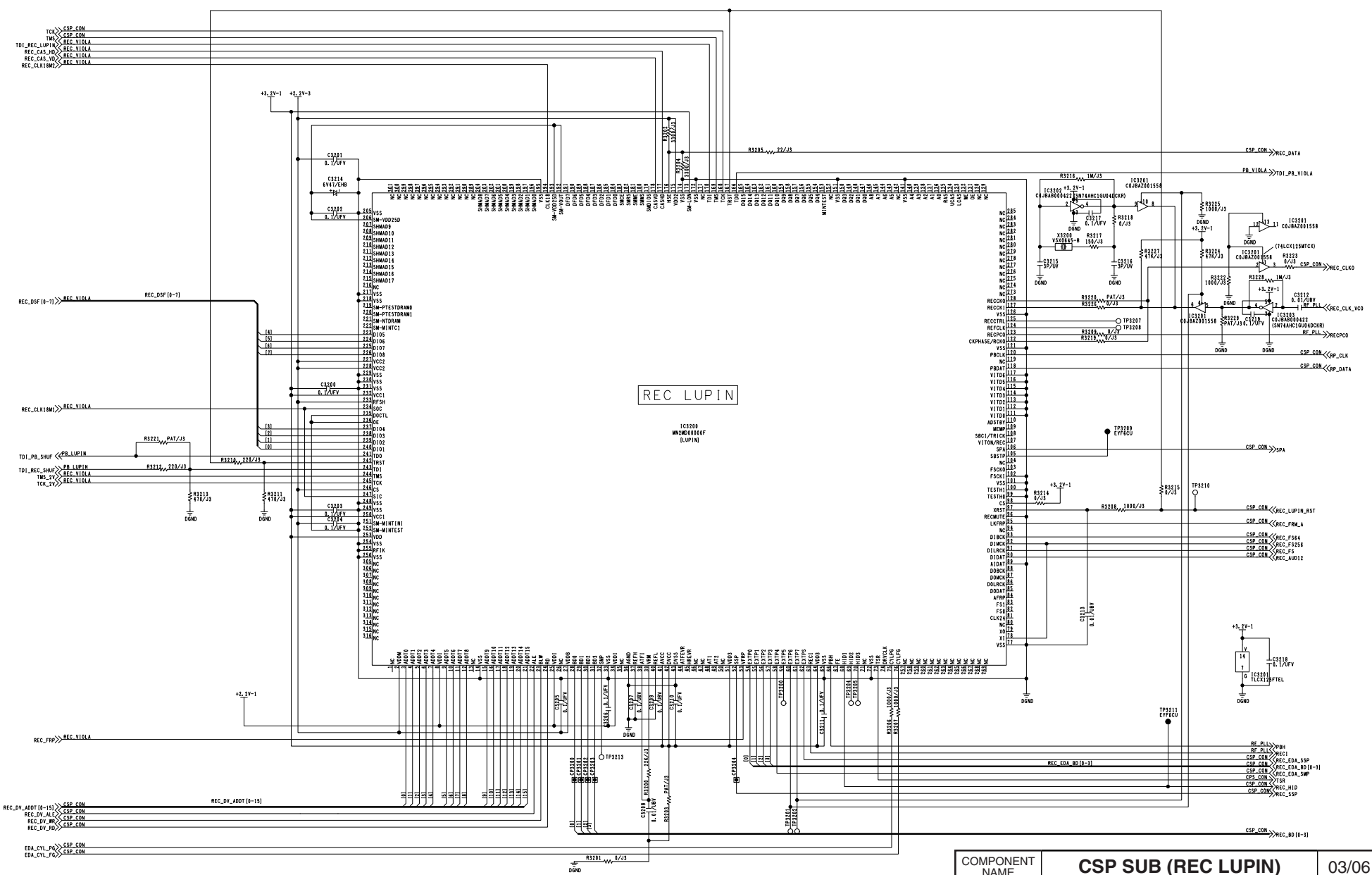
COMPONENT NAME	F4:D PROC (AMEM)	27/27
CIRCUIT BOARD NO.		DRAWING NO.
VEP83554B		KR30088 (27/27)
		SCM056



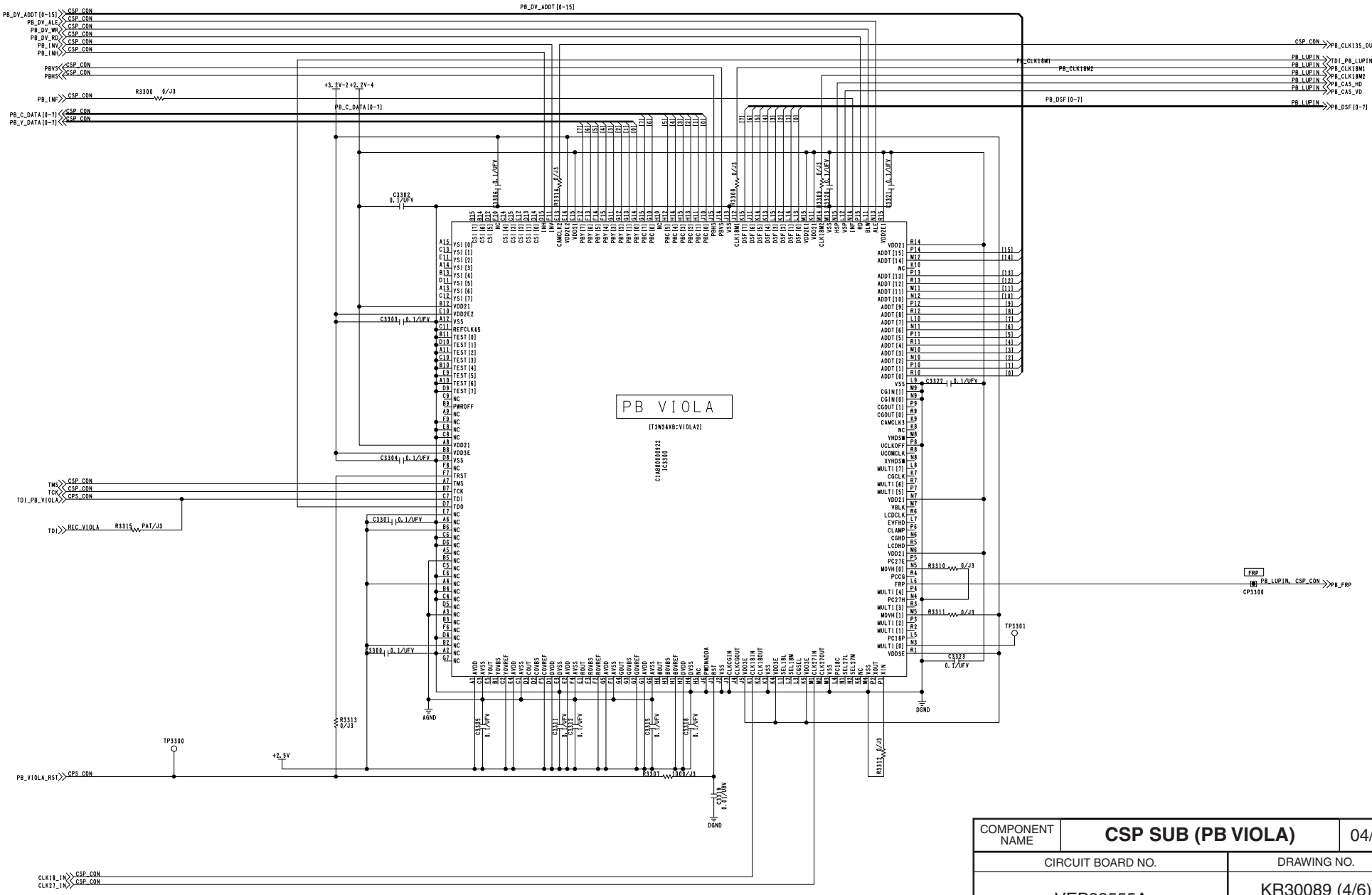
COMPONENT NAME	**CSP SUB (CONNECTOR)**	01/06
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83555A	KR30089 (1/6)	
	SCM057	



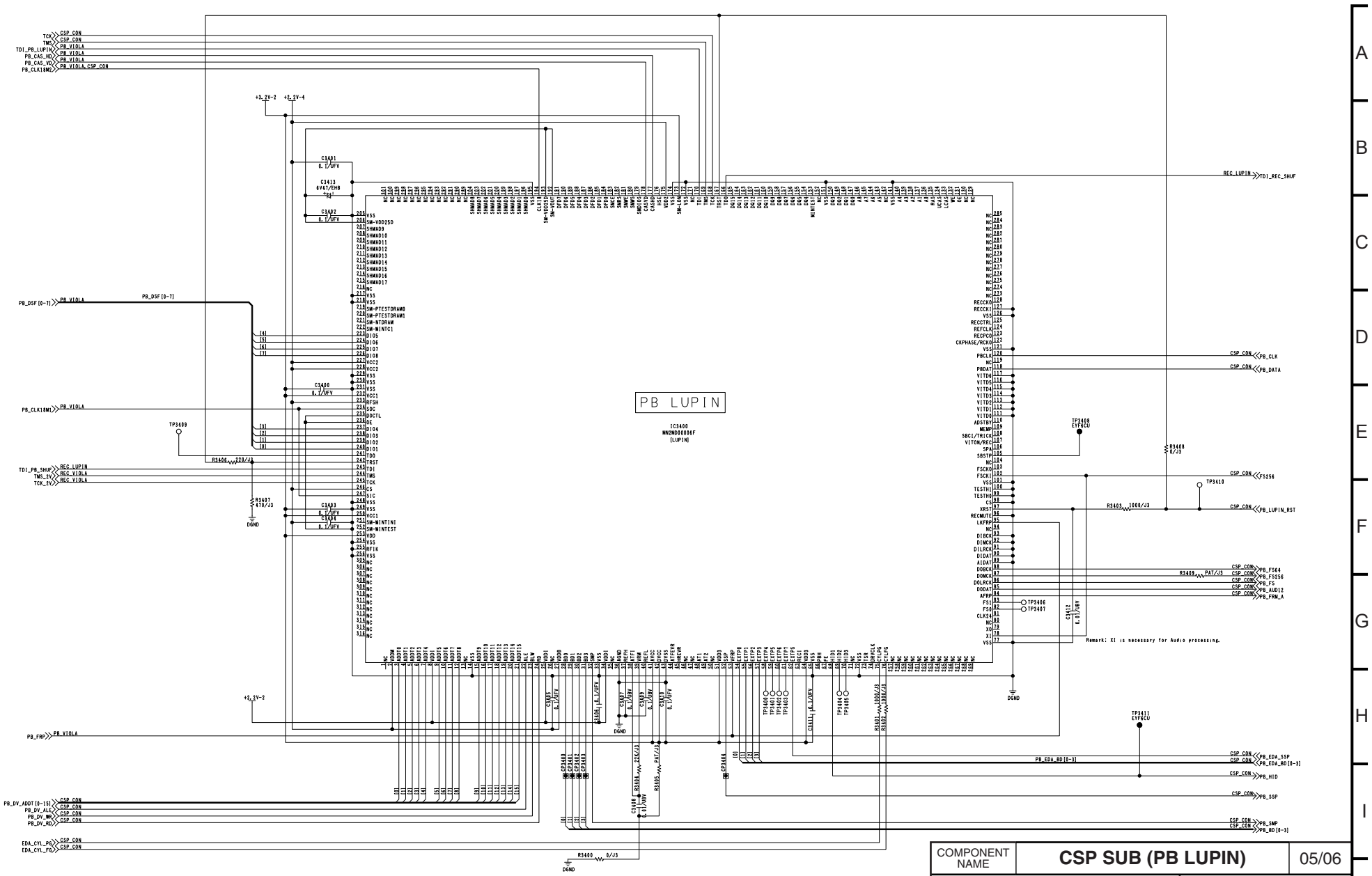
COMPONENT NAME	CSP SUB (REC VIOLA)	02/06
CIRCUIT BOARD NO.		DRAWING NO.
VEP83555A		KR30089 (2/6)
		SCM058

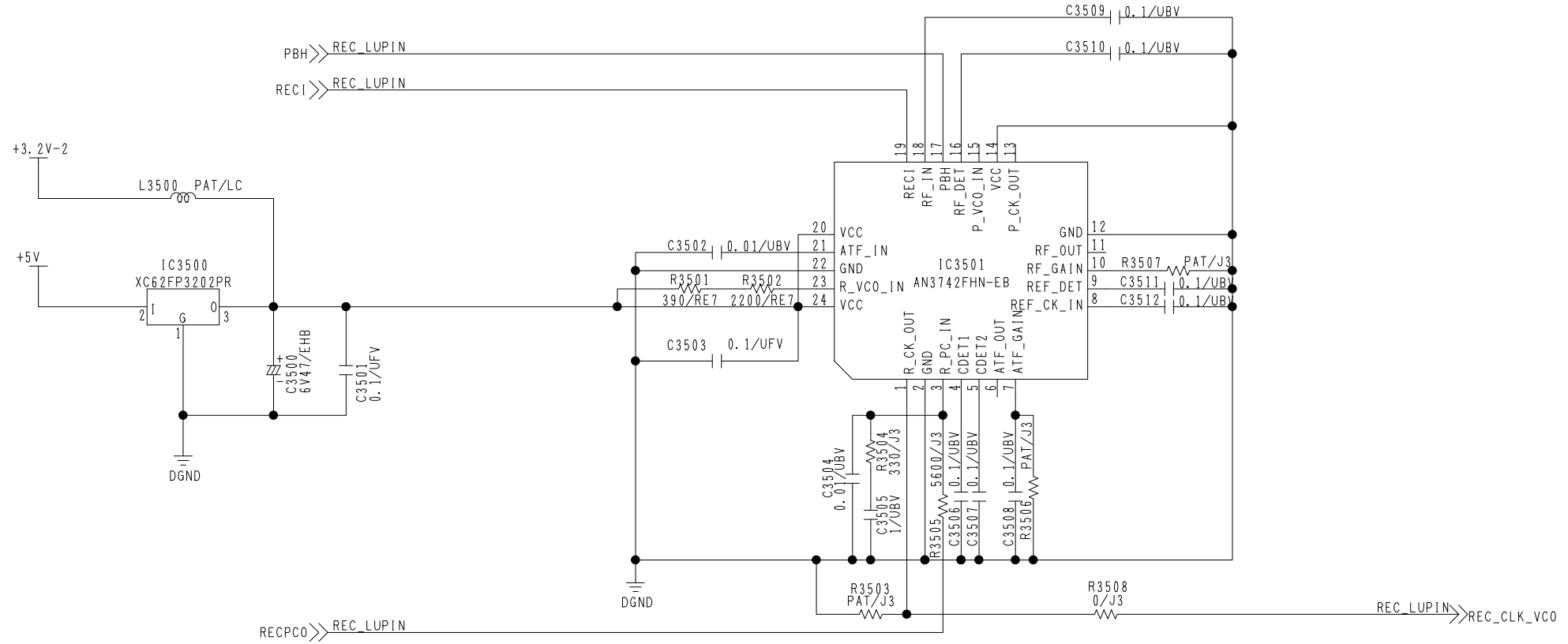


COMPONENT NAME	**CSP SUB (REC LUPIN)**	03/06
CIRCUIT BOARD NO.		DRAWING NO.
VEP83555A		KR30089 (3/6)
		SCM059



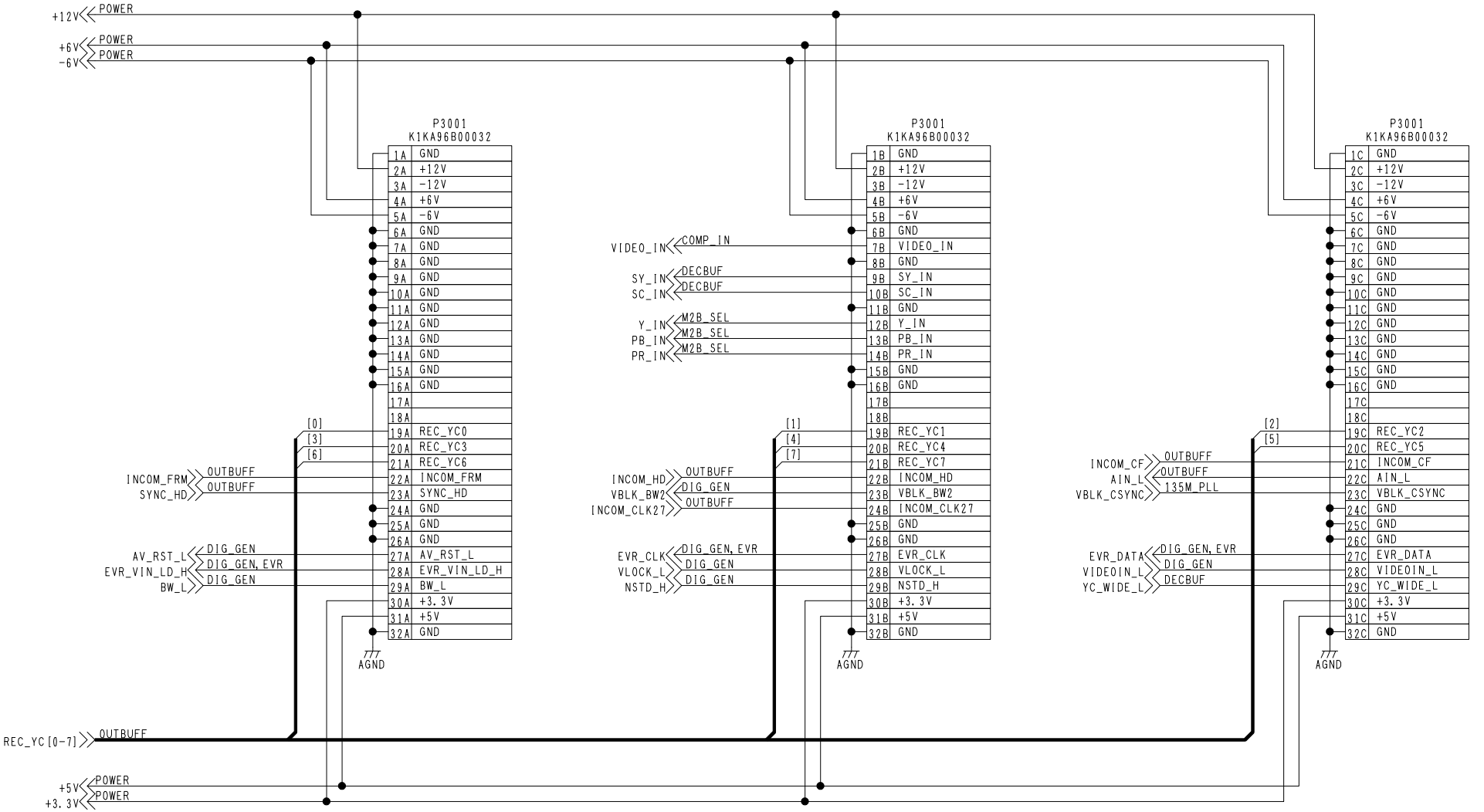
COMPONENT NAME	**CSP SUB (PB VIOLA)**	04/06
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83555A	KR30089 (4/6)	
	SCM060	


PB LUPIN
IC3400
MN2WD60006F
(LUPIN)
C3401
0.1/UFV
C3413
6V47/EHB
C3402
0.1/UFV
C3400
0.1/UFV
C3403
0.1/UFV
C3404
0.1/UFV
C3405
0.1/UFV
C3406
0.1/UFV
C3407
0.1/UFV
C3408
0.1/UFV
C3409
0.1/UFV
C3410
0.1/UFV
C3411
0.1/UFV
C3412
0.1/UFV
R3406 220/J3
R3407 470/J3
R3408 0/J3
R3409 PAT/J3
R3410 47K/J3
R3411 PAT/J3
R3400 0/J3
R3401 1000/J3
R3402 1000/J3
R3403 1000/J3
TP3409
TP3408
TP3410
TP3411
TP3406
TP3407
TP3404
TP3405
TP3412
TP3413
TP3414
TP3415
TP3416
TP3417
TP3418
TP3419
TP3420
TP3421
TP3422
TP3423
TP3424
TP3425
TP3426
TP3427
TP3428
TP3429
TP3430
TP3431
TP3432
TP3433
TP3434
TP3435
TP3436
TP3437
TP3438
TP3439
TP3440
TP3441
TP3442
TP3443
TP3444
TP3445
TP3446
TP3447
TP3448
TP3449
TP3450
TP3451

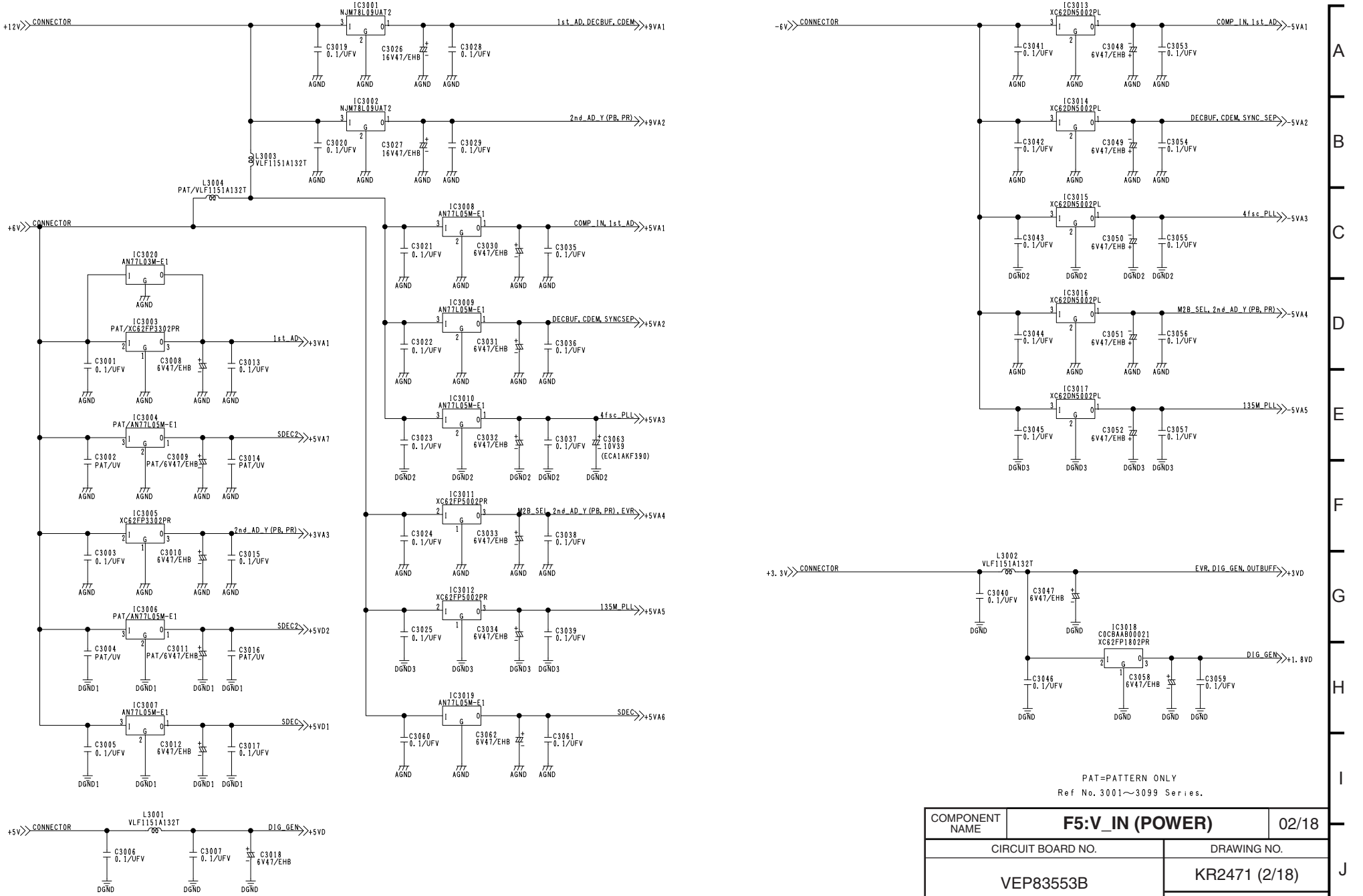


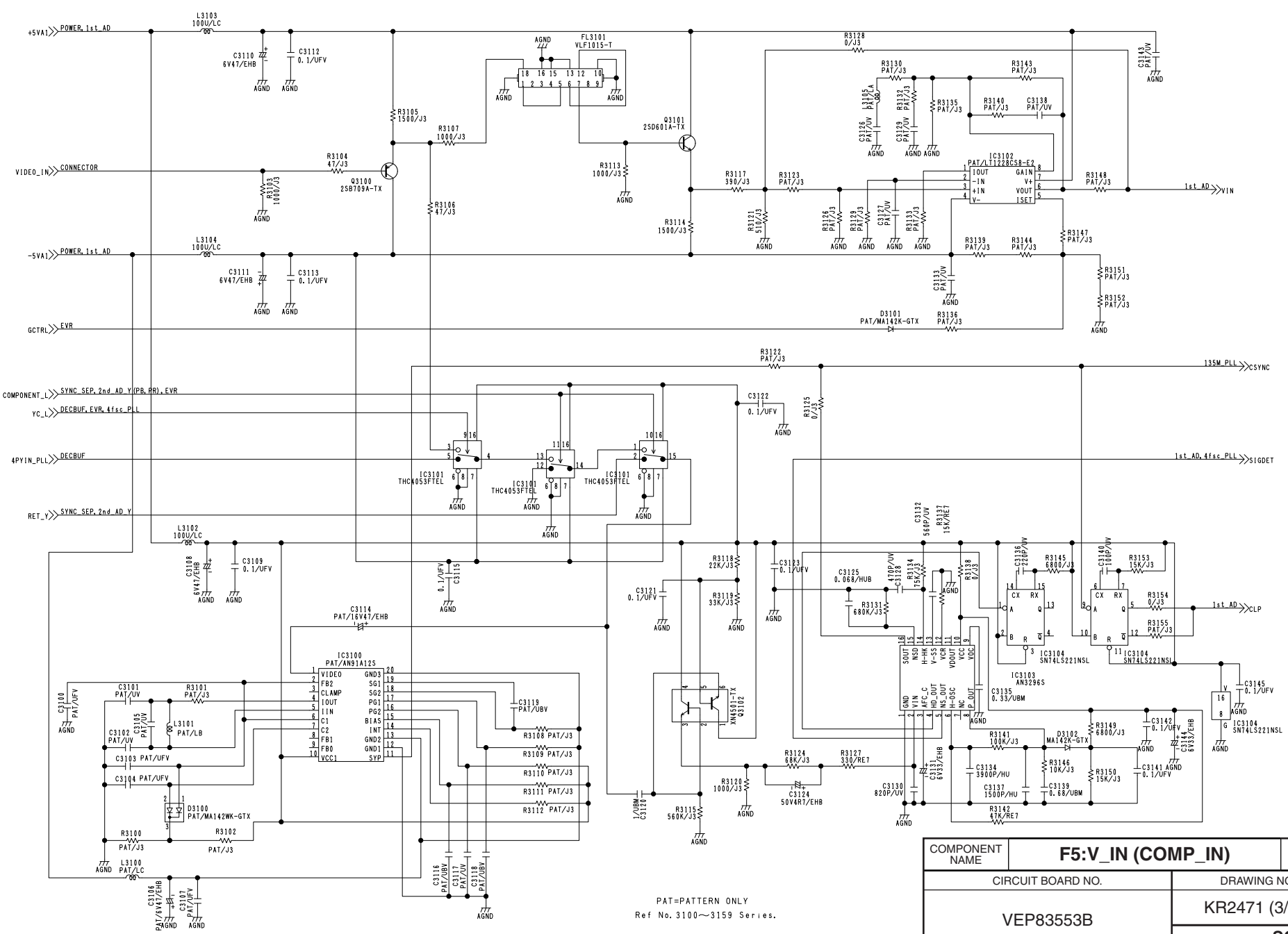
Ref No. 3500～ Series.

COMPONENT NAME	CSP SUB (RF_PLL)	06/06
CIRCUIT BOARD NO.		DRAWING NO.
VEP83555A		KR30089 (6/6)
		SCM062

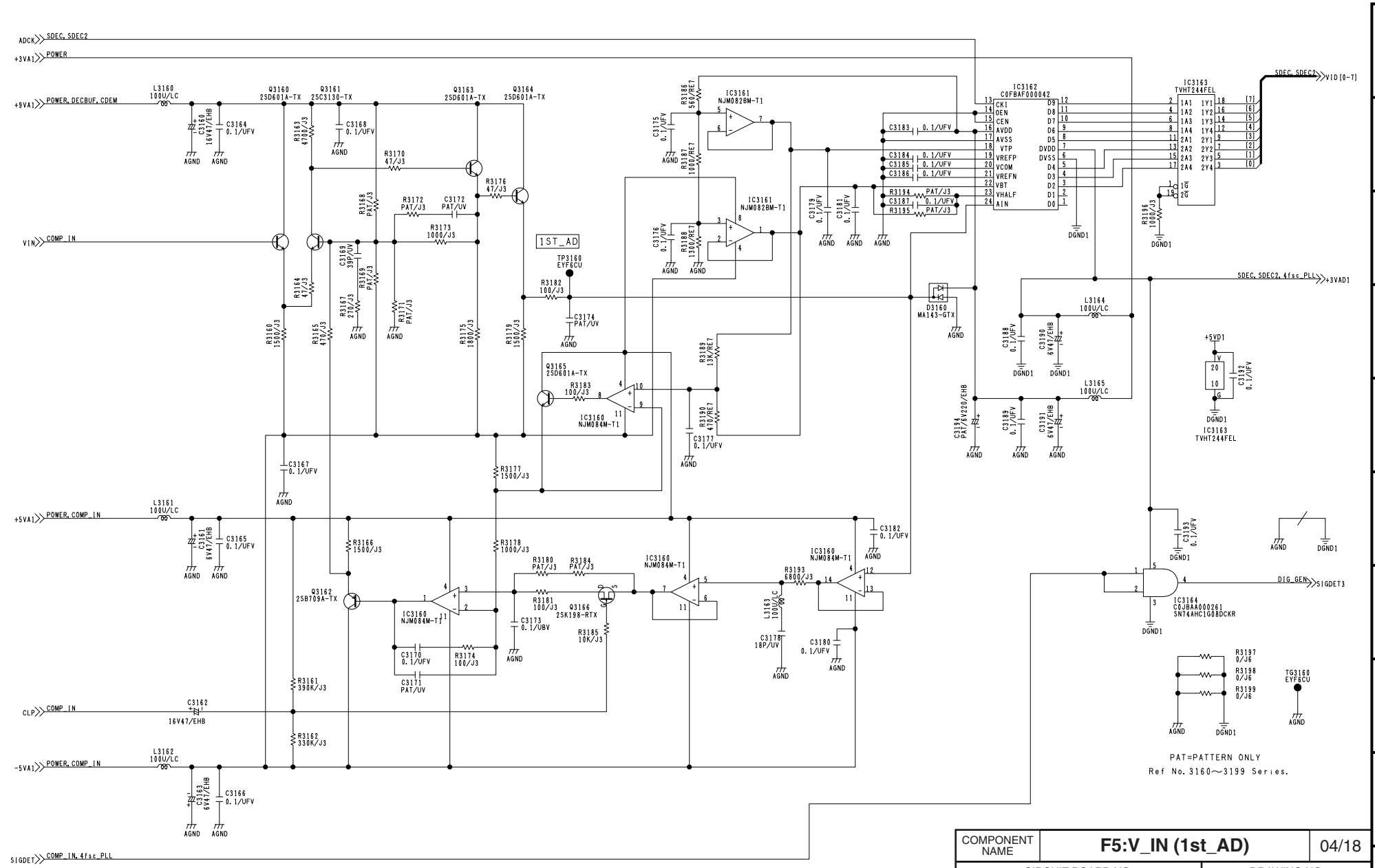


COMPONENT NAME	F5:V_IN (CONNECTOR)	01/18
CIRCUIT BOARD NO.		DRAWING NO.
VEP83553B		KR2471 (1/18)
		SCM063

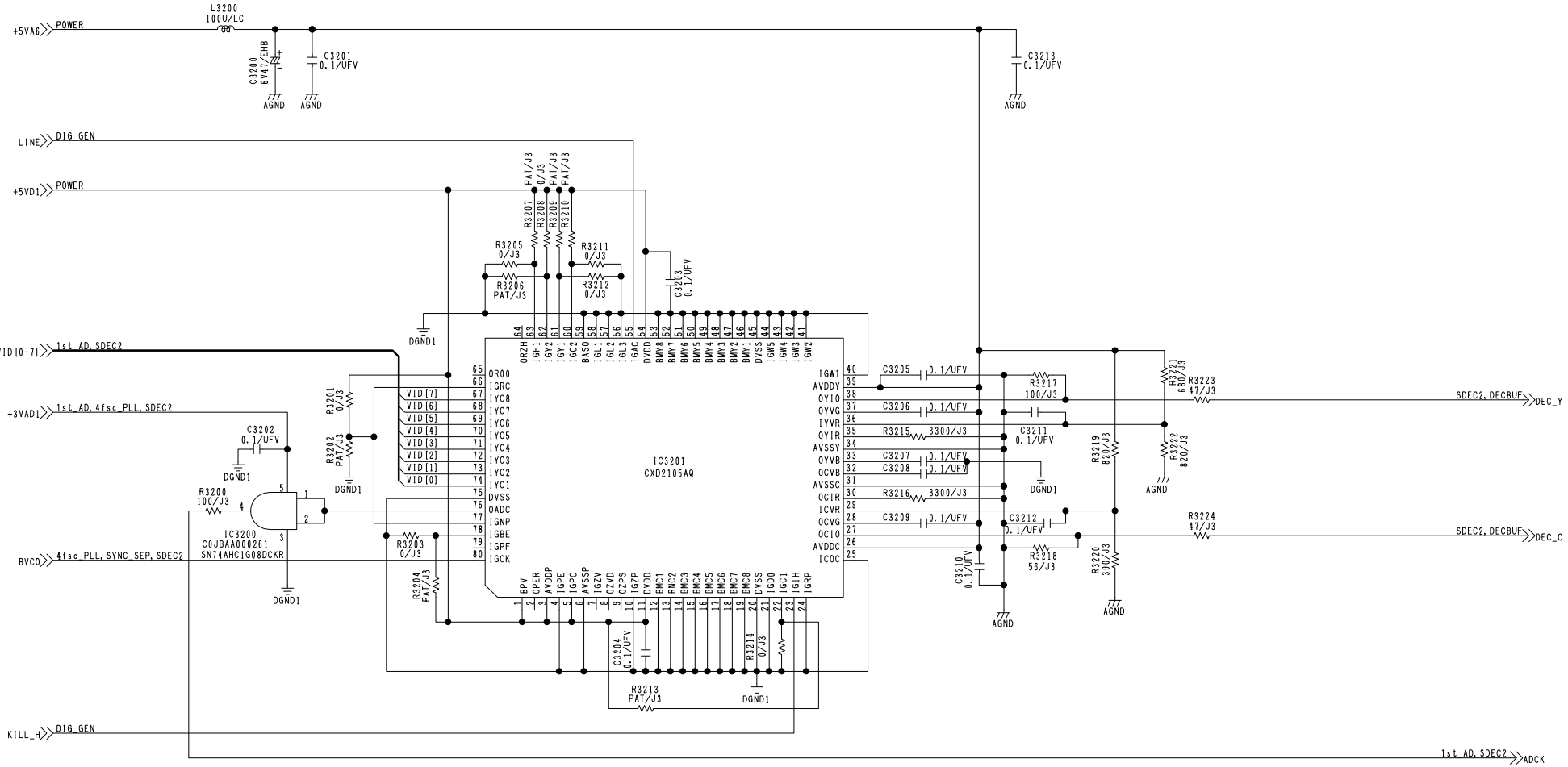

+12V
CONNECTOR
IC3001
NJM78L09UAT2
1st_AD, DECBUF, CDEM
+9VA1
C3019
0.1/UFV
C3026
16V47/EHB
C3028
0.1/UFV
IC3002
NJM78L09UAT2
2nd_AD_Y(PB, PR)
+9VA2
C3020
0.1/UFV
C3027
16V47/EHB
C3029
0.1/UFV
L3003
VLF1151A132T
L3004
PAT/VLF1151A132T
+6V
CONNECTOR
IC3008
AN77L05M-E1
COMP_IN, 1st_AD
+5VA1
C3021
0.1/UFV
C3030
6V47/EHB
C3035
0.1/UFV
IC3020
AN77L03M-E1
IC3003
PAT/XC62FP3302PR
1st_AD
+3VA1
C3001
0.1/UFV
C3008
6V47/EHB
C3013
0.1/UFV
IC3009
AN77L05M-E1
DECBUF, CDEM, SYNCSEP
+5VA2
C3022
0.1/UFV
C3031
6V47/EHB
C3036
0.1/UFV
IC3004
PAT/AN77L05M-E1
SDEC2
+5VA7
C3002
PAT/UV
C3009
PAT/6V47/EHB
C3014
PAT/UV
IC3010
AN77L05M-E1
4fsc_PLL
+5VA3
C3023
0.1/UFV
C3032
6V47/EHB
C3037
0.1/UFV
C3063
10V39
(ECA1AKF390)
IC3005
XC62FP3302PR
2nd_AD_Y(PB, PR)
+3VA3
C3003
0.1/UFV
C3010
6V47/EHB
C3015
0.1/UFV
IC3011
XC62FP5002PR
M2B_SEL, 2nd_AD_Y(PB, PR), EVR
+5VA4
C3024
0.1/UFV
C3033
6V47/EHB
C3038
0.1/UFV
IC3006
PAT/AN77L05M-E1
SDEC2
+5VD2
C3004
PAT/UV
C3011
PAT/6V47/EHB
C3016
PAT/UV
IC3012
XC62FP5002PR
135M_PLL
+5VA5
C3025
0.1/UFV
C3034
6V47/EHB
C3039
0.1/UFV
IC3007
AN77L05M-E1
SDEC
+5VD1
C3005
0.1/UFV
C3012
6V47/EHB
C3017
0.1/UFV
IC3019
AN77L05M-E1
SDEC
+5VA6
C3060
0.1/UFV
C3062
6V47/EHB
C3061
0.1/UFV
+5V
CONNECTOR
L3001
VLF1151A132T
DIG_GEN
+5VD
C3006
0.1/UFV
C3007
0.1/UFV
C3018
6V47/EHB
-6V
CONNECTOR
IC3013
XC62DN5002PL
COMP_IN, 1st_AD
-5VA1
C3041
0.1/UFV
C3048
6V47/EHB
C3053
0.1/UFV
IC3014
XC62DN5002PL
DECBUF, CDEM, SYNC_SEP
-5VA2
C3042
0.1/UFV
C3049
6V47/EHB
C3054
0.1/UFV
IC3015
XC62DN5002PL
4fsc_PLL
-5VA3
C3043
0.1/UFV
C3050
6V47/EHB
C3055
0.1/UFV
IC3016
XC62DN5002PL
M2B_SEL, 2nd_AD_Y(PB, PR)
-5VA4
C3044
0.1/UFV
C3051
6V47/EHB
C3056
0.1/UFV
IC3017
XC62DN5002PL
135M_PLL
-5VA5
C3045
0.1/UFV
C3052
6V47/EHB
C3057
0.1/UFV
+3.3V
CONNECTOR
L3002
VLF1151A132T
EVR, DIG_GEN, OUTBUFF
+3VD
C3040
0.1/UFV
C3047
6V47/EHB
IC3018
C0CBAAB00021
XC62FP1802PR
DIG_GEN
+1.8VD
C3046
0.1/UFV
C3058
6V47/EHB
C3059
0.1/UFV
AGND
DGND
DGND1
DGND2
DGND3
PAT=PATTERN ONLY
Ref No. 3001～3099 Series.
COMPONENT NAME
F5:V_IN (POWER)
02/18
CIRCUIT BOARD NO.
VEP83553B
DRAWING NO.
KR2471 (2/18)
SCM064
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15



COMPONENT NAME	F5:V_IN (COMP_IN)	03/18
CIRCUIT BOARD NO.		DRAWING NO.
VEP83553B		KR2471 (3/18)
		SCM065



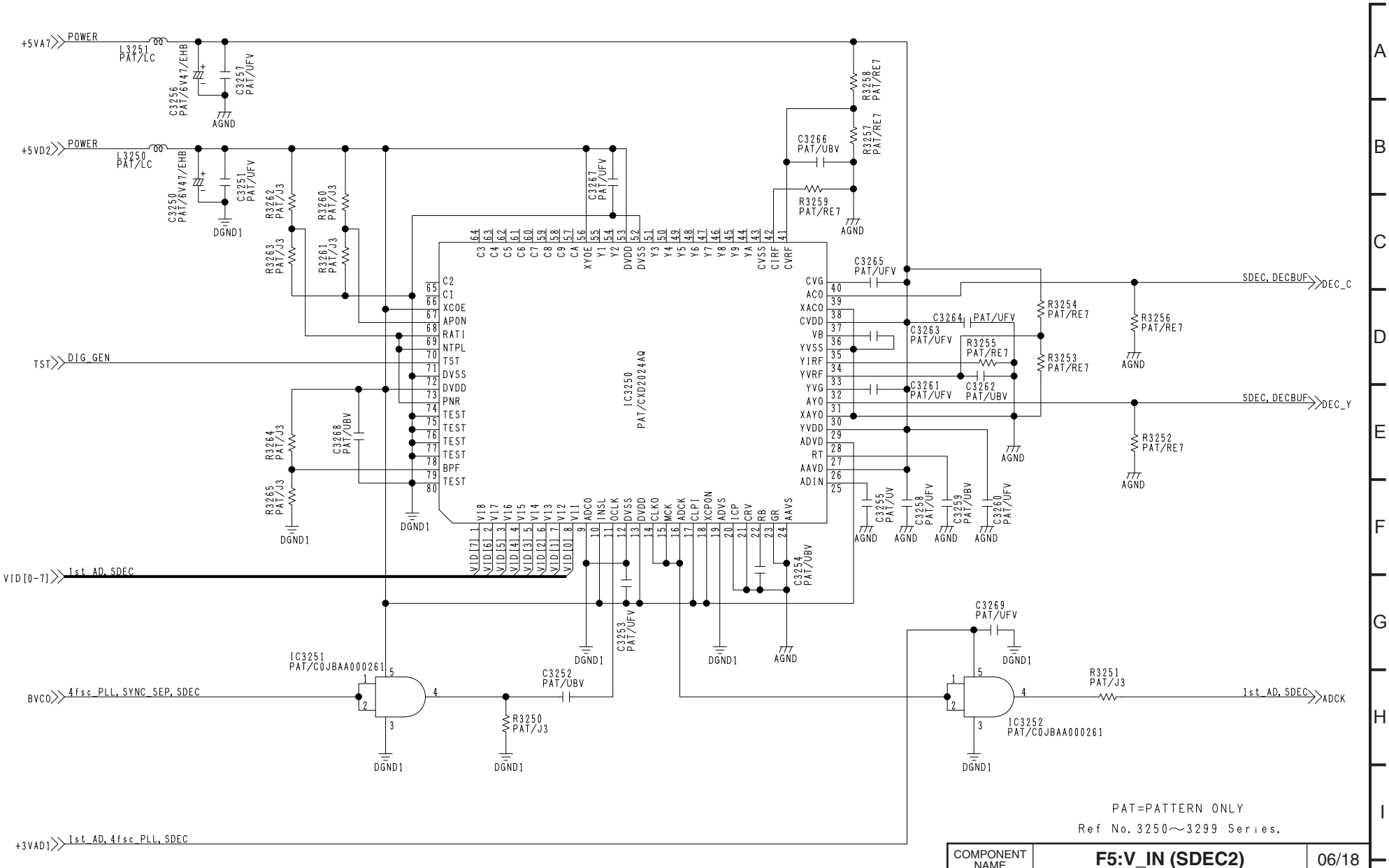
COMPONENT NAME	F5:V_IN (1st_AD)	04/18
CIRCUIT BOARD NO.		DRAWING NO.
VEP83553B		KR2471 (4/18)
		SCM066



PAT=PATTERN ONLY

Ref No. 3200～3249 Series.

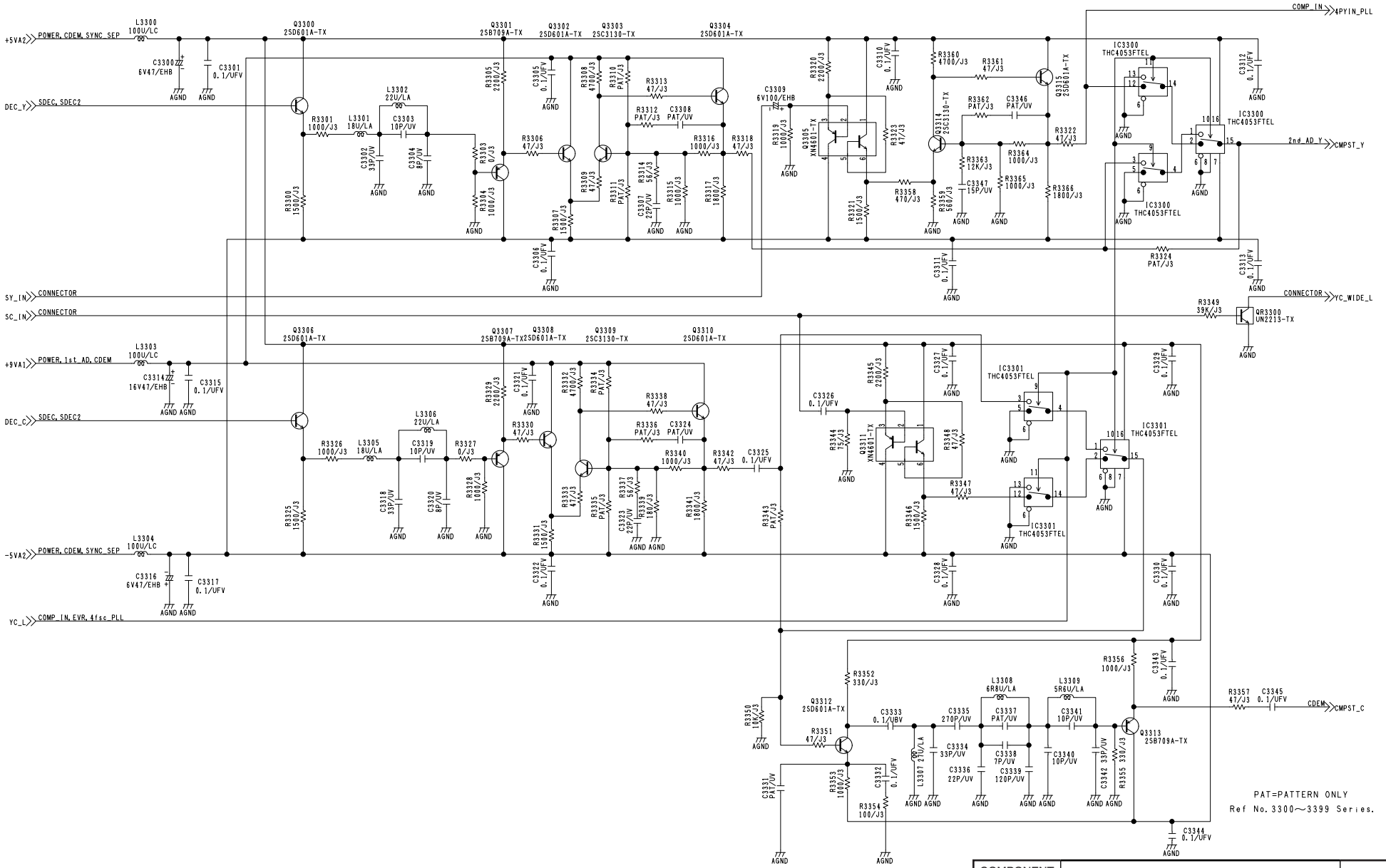
COMPONENT NAME	F5:V_IN (SDEC)	05/18
CIRCUIT BOARD NO.		DRAWING NO.
VEP83553B		KR2471 (5/18)
		SCM067



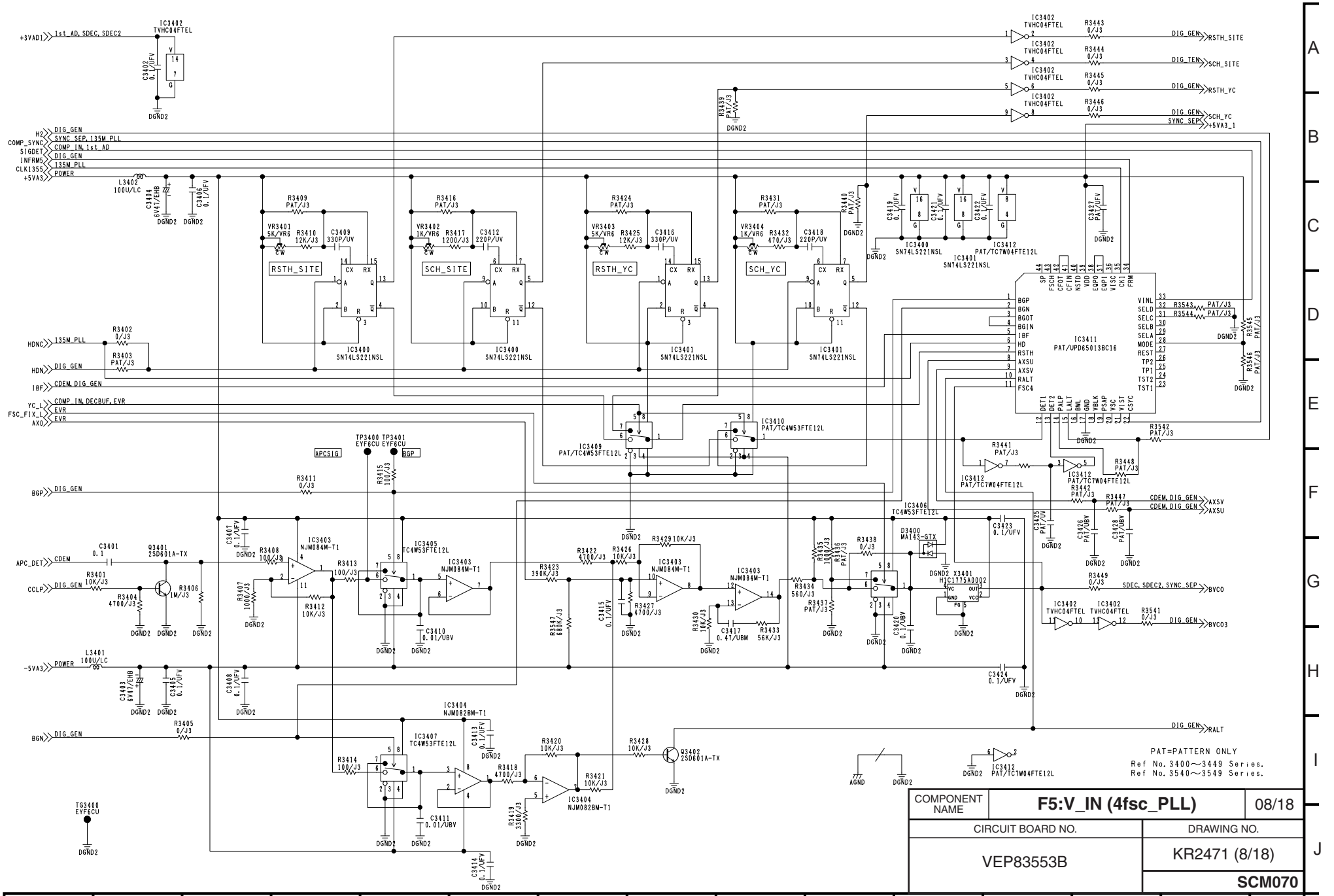
PAT=PATTERN ONLY

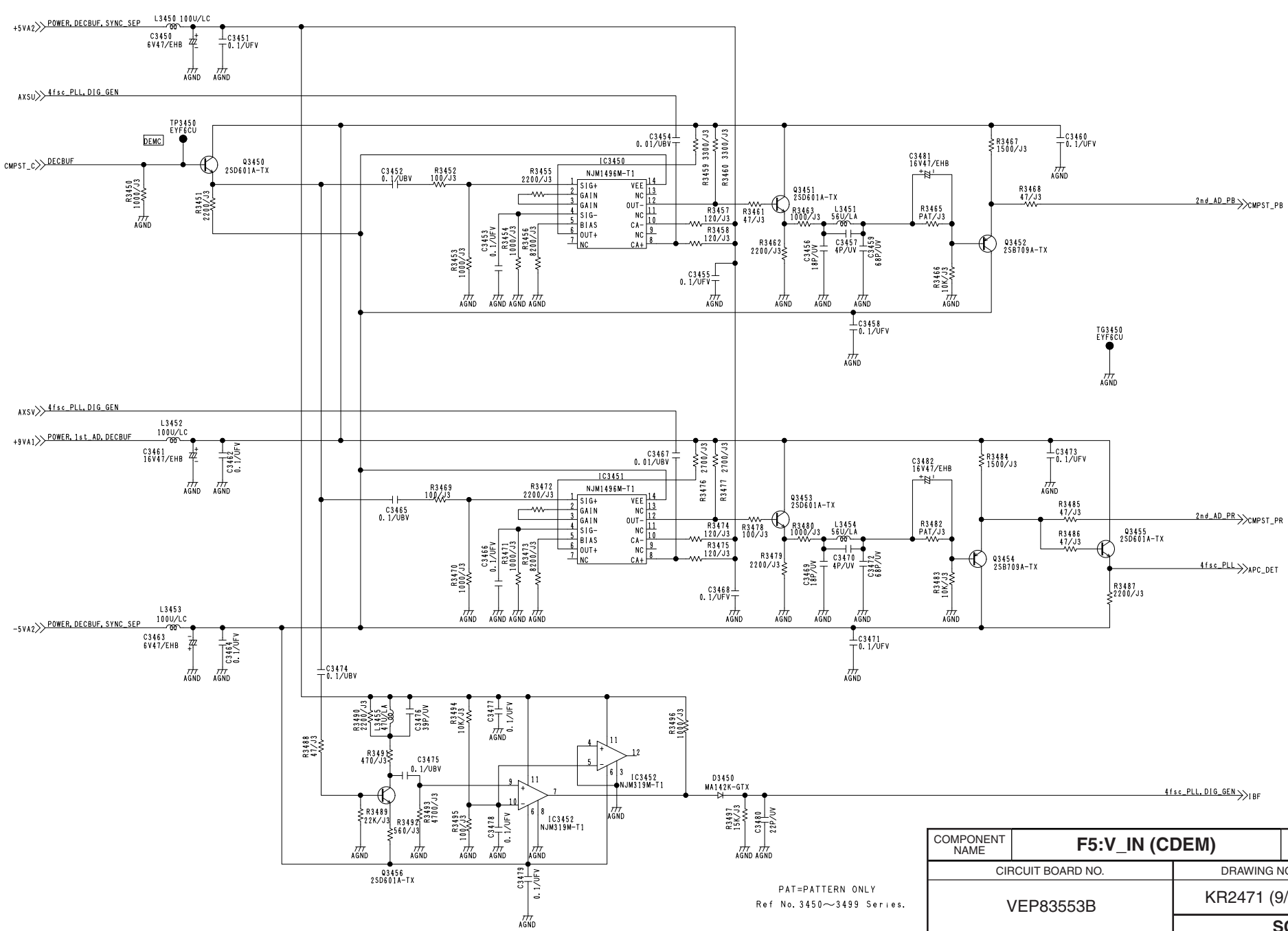
Ref No. 3250～3299 Series.

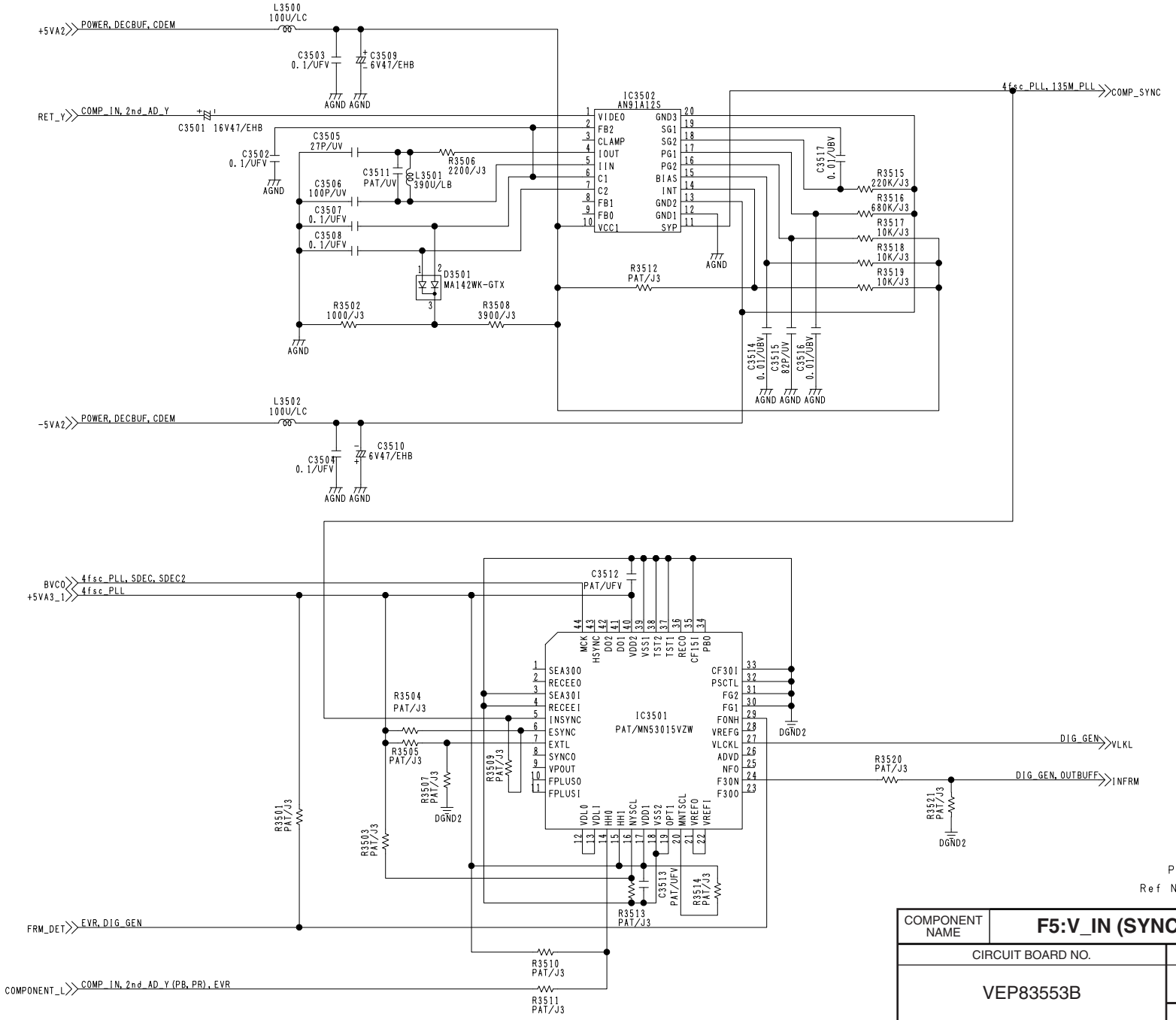
COMPONENT NAME	F5:V_IN (SDEC2)	06/18
CIRCUIT BOARD NO.		DRAWING NO.
VEP83553B		KR2471 (6/18)
		SCM068



COMPONENT NAME	F5:V_IN (DECBUF)	07/18
CIRCUIT BOARD NO.		DRAWING NO.
VEP83553B		KR2471 (7/18)
		SCM069

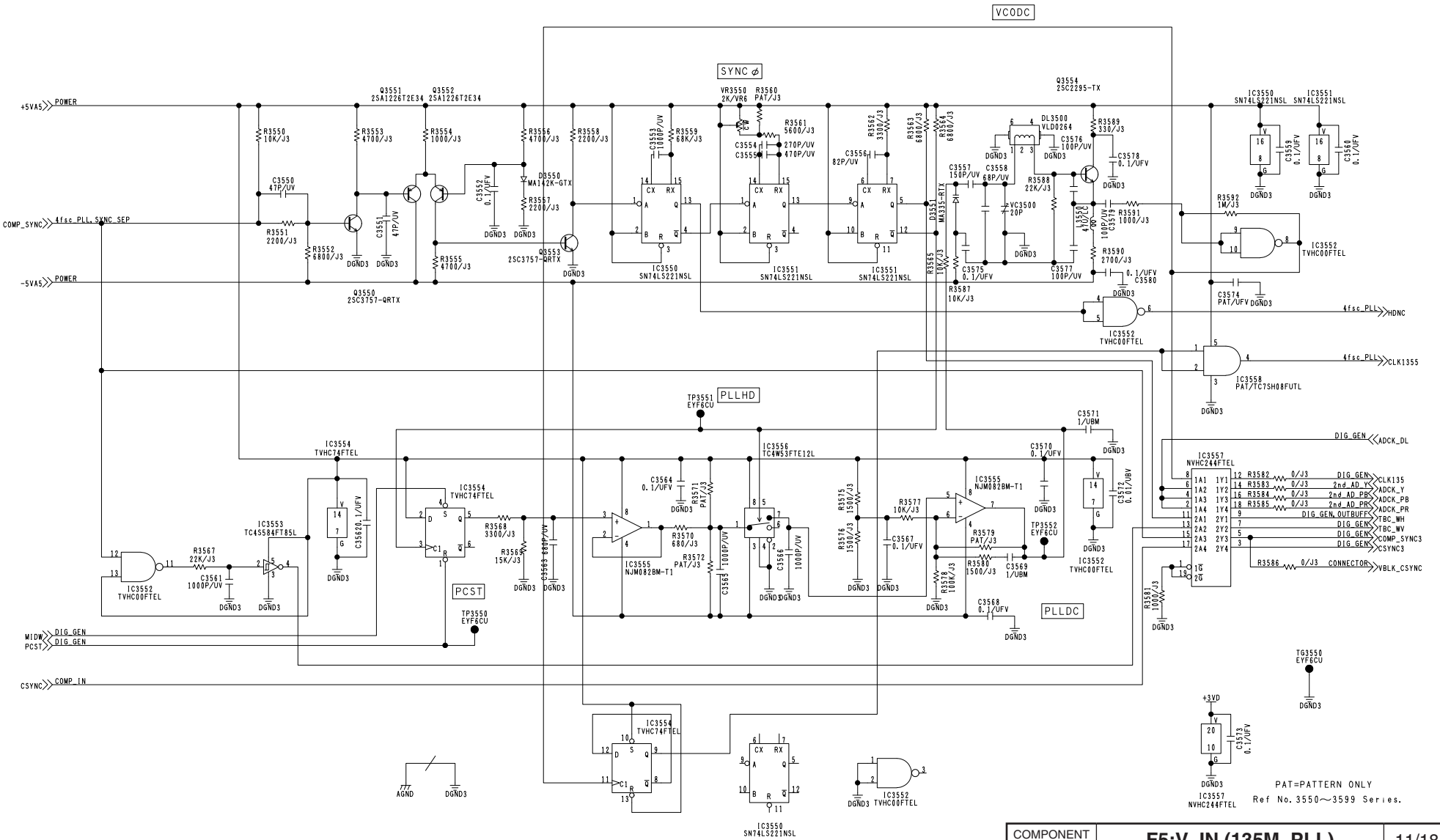

+3VAD1
1st_AD, SDEC, SDEC2
IC3402 TVHC04FTEL
C3402 0.1/UFV
DGND2
H2
COMP_SYNC
SIGDET
INFRM5
CLK1355
+5VA3
DIG_GEN
SYNC SEP, 135M_PLL
COMP_IN, 1st_AD
DIG GEN
135M_PLL
POWER
L3402 100U/LC
C3404 6V47/EHB
C3440 0.1/UFV
R3409 PAT/J3
VR3401 5K/VR6
R3410 12K/J3
C3409 330P/UV
RSTH_SITE
IC3400 SN74LS221NSL
R3416 PAT/J3
VR3402 1K/VR6
R3417 1200/J3
C3412 220P/UV
SCH_SITE
R3424 PAT/J3
VR3403 5K/VR6
R3425 12K/J3
C3416 330P/UV
RSTH_YC
IC3401 SN74LS221NSL
R3431 PAT/J3
VR3404 1K/VR6
R3432 470/J3
C3418 220P/UV
SCH_YC
R3440 PAT/J3
R3439 PAT/J3
C3419 0.1/UFV
C3421 0.1/UFV
C3422 0.1/UFV
IC3412 PAT/TC7W04FTE12L
C3427 PAT/UFV
R3443 0/J3
R3444 0/J3
R3445 0/J3
R3446 0/J3
DIG_GEN
RSTH_SITE
SCH_SITE
RSTH_YC
SCH_YC
SYNC_SEP
+5VA3_1
IC3411 PAT/UPD65013BC16
R3543 PAT/J3
R3544 PAT/J3
R3545 PAT/J3
R3546 PAT/J3
R3542 PAT/J3
R3441 PAT/J3
R3448 PAT/J3
R3442 PAT/J3
R3447 PAT/J3
CDEM, DIG_GEN
AXSV
AXSU
R3402 0/J3
R3403 PAT/J3
HDNC
HDN
IBF
CDEM, DIG_GEN
YC_L
FSC_FIX_L
AXO
COMP_IN, DECBUF, EVR
EVR
IC3409 PAT/TC4W53FTE12L
IC3410 PAT/TC4W53FTE12L
TP3400 EYF6CU
TP3401 EYF6CU
APCSIG
BGP
R3411 0/J3
R3415 100/J3
IC3406 TC4W53FTE12L
C3423 0.1/UFV
C3425 PAT/UFV
C3426 PAT/UBV
C3428 PAT/UBV
D3400 MA143-GTX
X3401 H1C1775A0002
R3449 0/J3
SDEC, SDEC2, SYNC_SEP
BVCO
R3541 0/J3
BVCO3
C3401 0.1
Q3401 2SD601A-TX
APC_DET
CDEM
CCLP
R3401 10K/J3
R3404 4700/J3
R3406 1M/J3
IC3403 NJM084M-T1
IC3405 TC4W53FTE12L
R3407 100/J3
R3408 100/J3
R3412 10K/J3
R3413 100/J3
C3410 0.01/UBV
R3422 4700/J3
R3426 10K/J3
R3429 10K/J3
R3423 390K/J3
R3547 680K/J3
C3415 0.1/UFV
R3427 4700/J3
R3430 10K/J3
C3417 0.47/UBM
R3433 56K/J3
R3434 560/J3
R3435 100/J3
R3436 PAT/J3
R3437 PAT/J3
R3438 0/J3
C3420 0.1/UBV
C3424 0.1/UFV
L3401 100U/LC
-5VA3
C3403 6V47/EHB
C3405 0.1/UFV
C3408 0.1/UFV
IC3404 NJM082BM-T1
IC3407 TC4W53FTE12L
R3405 0/J3
BGN
C3413 0.1/UFV
R3414 100/J3
R3418 4700/J3
R3420 10K/J3
R3421 10K/J3
R3419 330/J3
C3411 0.01/UBV
C3414 0.1/UFV
R3428 10K/J3
Q3402 2SD601A-TX
TG3400 EYF6CU
DGND2
AGND
RALT
PAT=PATTERN ONLY
Ref No. 3400～3449 Series.
Ref No. 3540～3549 Series.
COMPONENT NAME
F5:V_IN (4fsc_PLL)
08/18
CIRCUIT BOARD NO.
VEP83553B
DRAWING NO.
KR2471 (8/18)
SCM070


+5VA2
POWER, DECBUF, SYNC_SEP
L3450 100U/LC
C3450 6V47/EHB
C3451 0.1/UFV
AXSU
4fsc_PLL, DIG_GEN
TP3450 EYF6CU
DEMC
CMPST_C
DECBUF
Q3450 2SD601A-TX
R3450 1000/J3
R3451 2200/J3
C3452 0.1/UBV
R3452 100/J3
IC3450 NJM1496M-T1
SIG+ GAIN GAIN SIG- BIAS OUT+ NC
VEE NC OUT- NC CA- NC CA+
R3455 2200/J3
C3453 0.1/UFV
R3454 1000/J3
R3456 8200/J3
R3453 1000/J3
C3454 0.01/UBV
R3459 3300/J3
R3460 3300/J3
R3457 120/J3
R3458 120/J3
C3455 0.1/UFV
Q3451 2SD601A-TX
R3461 47/J3
R3462 2200/J3
C3456 18P/UV
C3457 4P/UV
C3465 68P/UV
L3451 56U/LA
R3463 1000/J3
C3481 16V47/EHB
R3465 PAT/J3
R3466 10K/J3
Q3452 2SB709A-TX
R3467 1500/J3
C3460 0.1/UFV
R3468 47/J3
2nd_AD_PB
CMPST_PB
C3458 0.1/UFV
TG3450 EYF6CU
AXSV
4fsc_PLL, DIG_GEN
+9VA1
POWER, 1st_AD, DECBUF
L3452 100U/LC
C3461 16V47/EHB
C3462 0.1/UFV
C3467 0.01/UBV
R3469 100/J3
C3465 0.1/UBV
IC3451 NJM1496M-T1
R3472 2200/J3
R3470 1000/J3
C3466 0.1/UFV
R3471 1000/J3
R3473 8200/J3
R3476 2700/J3
R3477 2700/J3
R3474 120/J3
R3475 120/J3
C3468 0.1/UFV
Q3453 2SD601A-TX
R3478 100/J3
R3480 1000/J3
R3479 2200/J3
C3469 18P/UV
C3470 4P/UV
C3466 68P/UV
L3454 56U/LA
C3482 16V47/EHB
R3482 PAT/J3
R3483 10K/J3
Q3454 2SB709A-TX
R3484 1500/J3
C3473 0.1/UFV
R3485 47/J3
2nd_AD_PR
CMPST_PR
R3486 47/J3
Q3455 2SD601A-TX
4fsc_PLL
APC_DET
R3487 2200/J3
C3471 0.1/UFV
-5VA2
POWER, DECBUF, SYNC_SEP
L3453 100U/LC
C3463 6V47/EHB
C3464 0.1/UFV
C3474 0.1/UBV
R3490 2200/J3
L3455 47U/LA
C3476 39P/UV
R3494 10K/J3
C3477 0.1/UFV
R3496 1000/J3
R3488 47/J3
R3491 470/J3
C3475 0.1/UBV
IC3452 NJM319M-T1
D3450 MA142K-GTX
4fsc_PLL, DIG_GEN
1BF
R3489 22K/J3
R3492 560/J3
R3493 4700/J3
R3495 100/J3
C3478 0.1/UFV
IC3452 NJM319M-T1
R3497 15K/J3
C3480 220/UV
Q3456 2SD601A-TX
C3479 0.1/UFV
AGND
PAT=PATTERN ONLY
Ref No. 3450～3499 Series.
COMPONENT NAME
F5:V_IN (CDEM)
09/18
CIRCUIT BOARD NO.
VEP83553B
DRAWING NO.
KR2471 (9/18)
SCM071

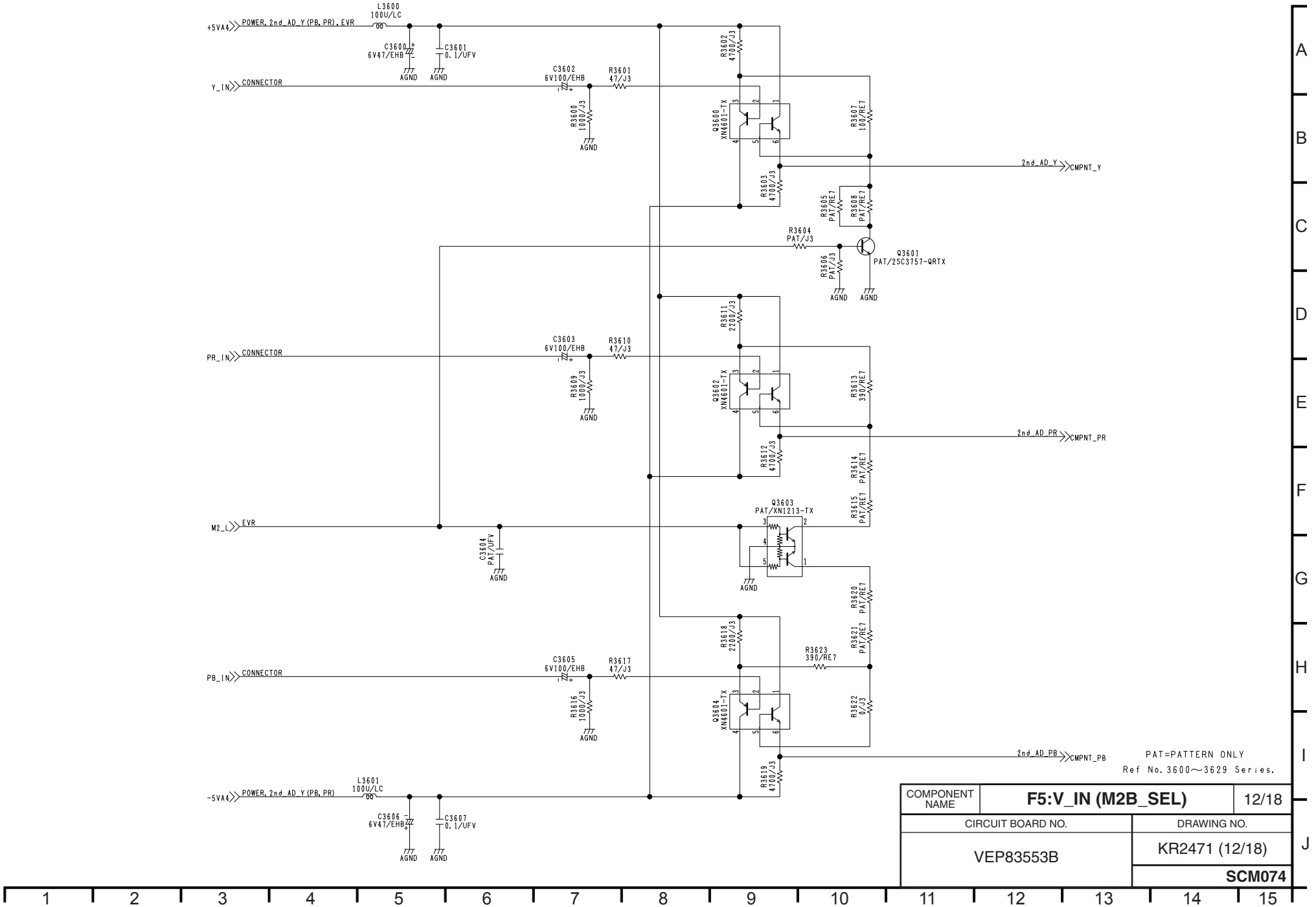


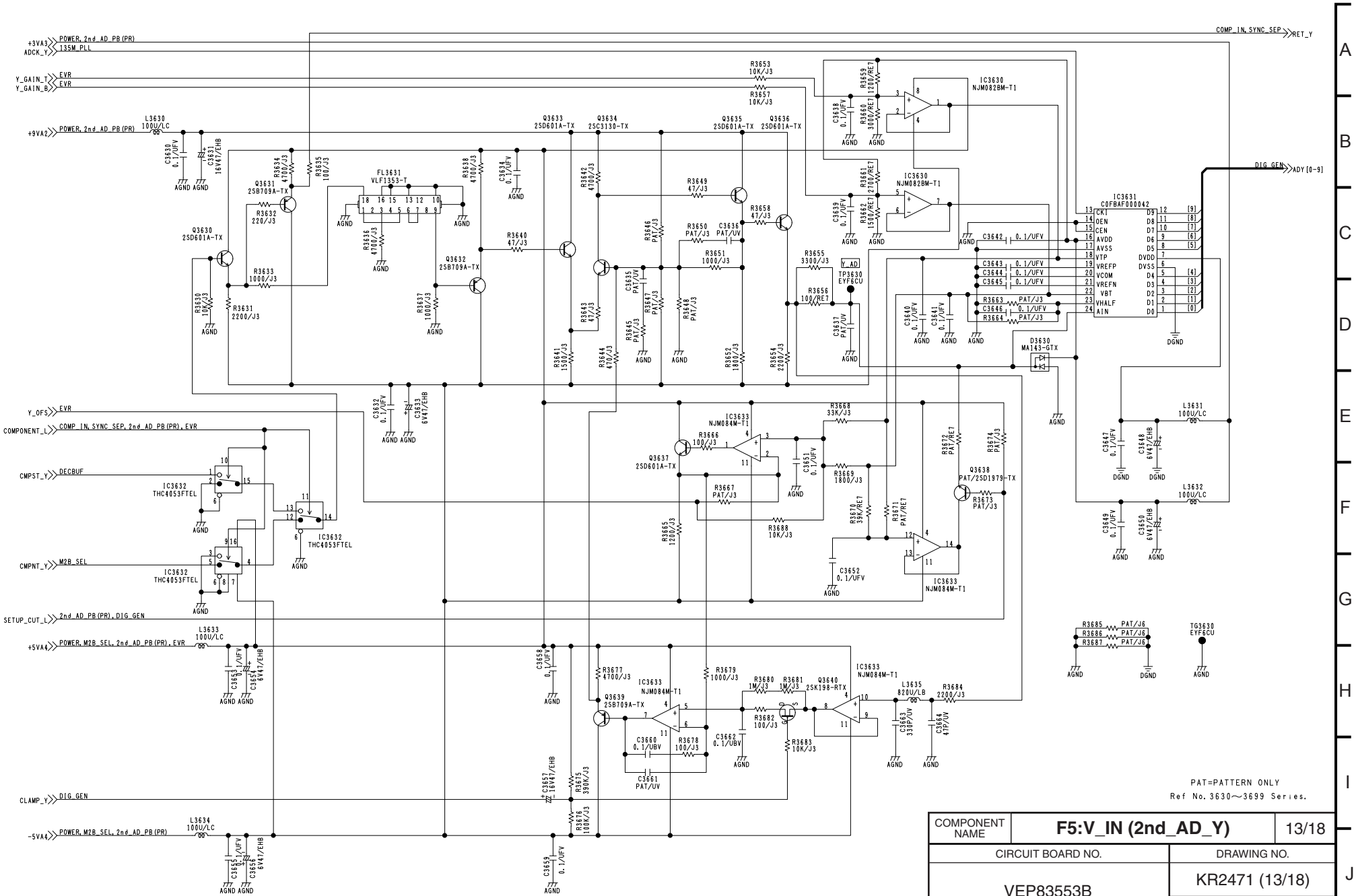
PAT=PATTERN ONLY
Ref No. 3500～3539 Series.

COMPONENT NAME	F5:V_IN (SYNC_SEP)	10/18
CIRCUIT BOARD NO.		DRAWING NO.
VEP83553B		KR2471 (10/18)
		SCM072

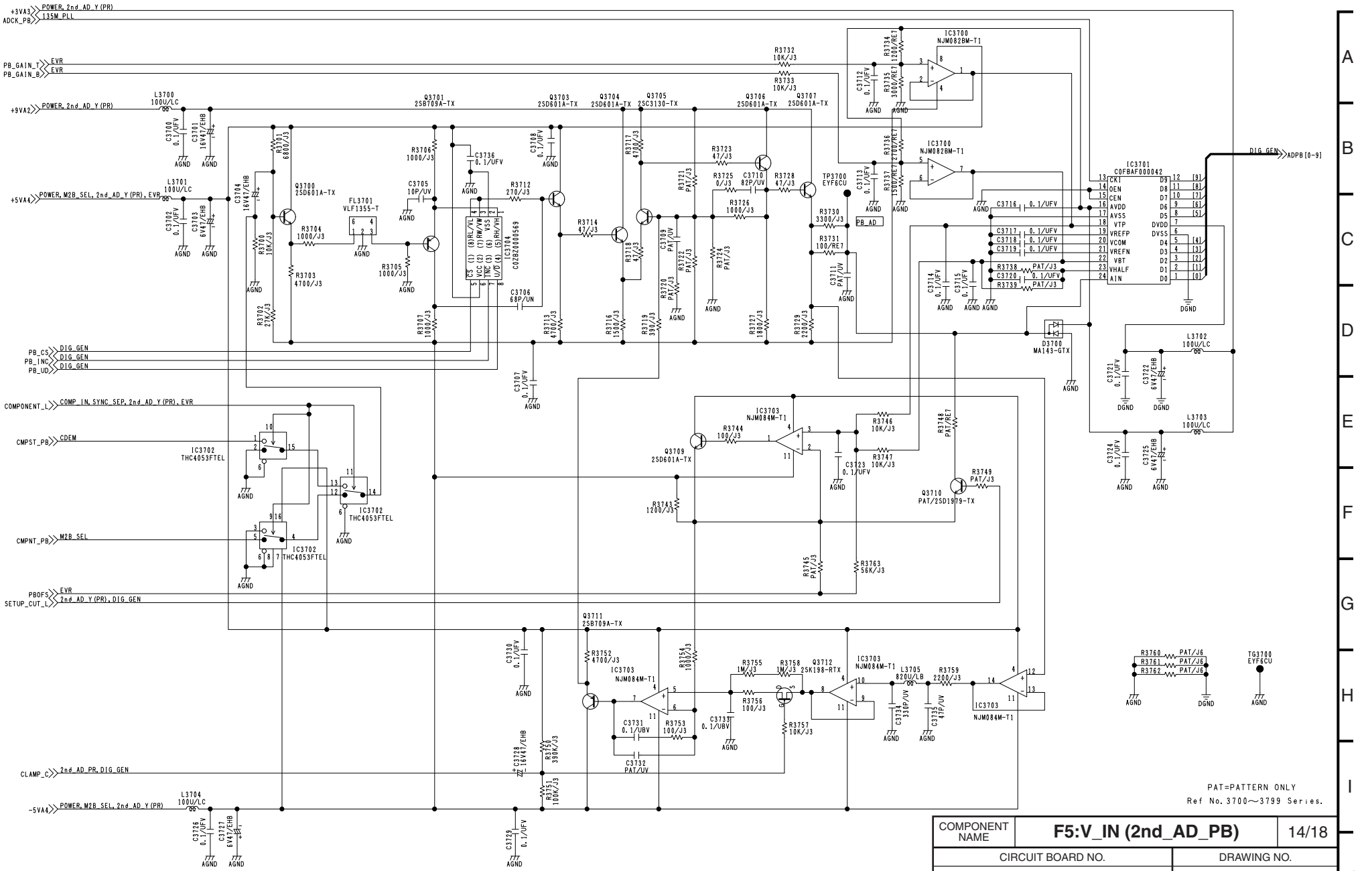


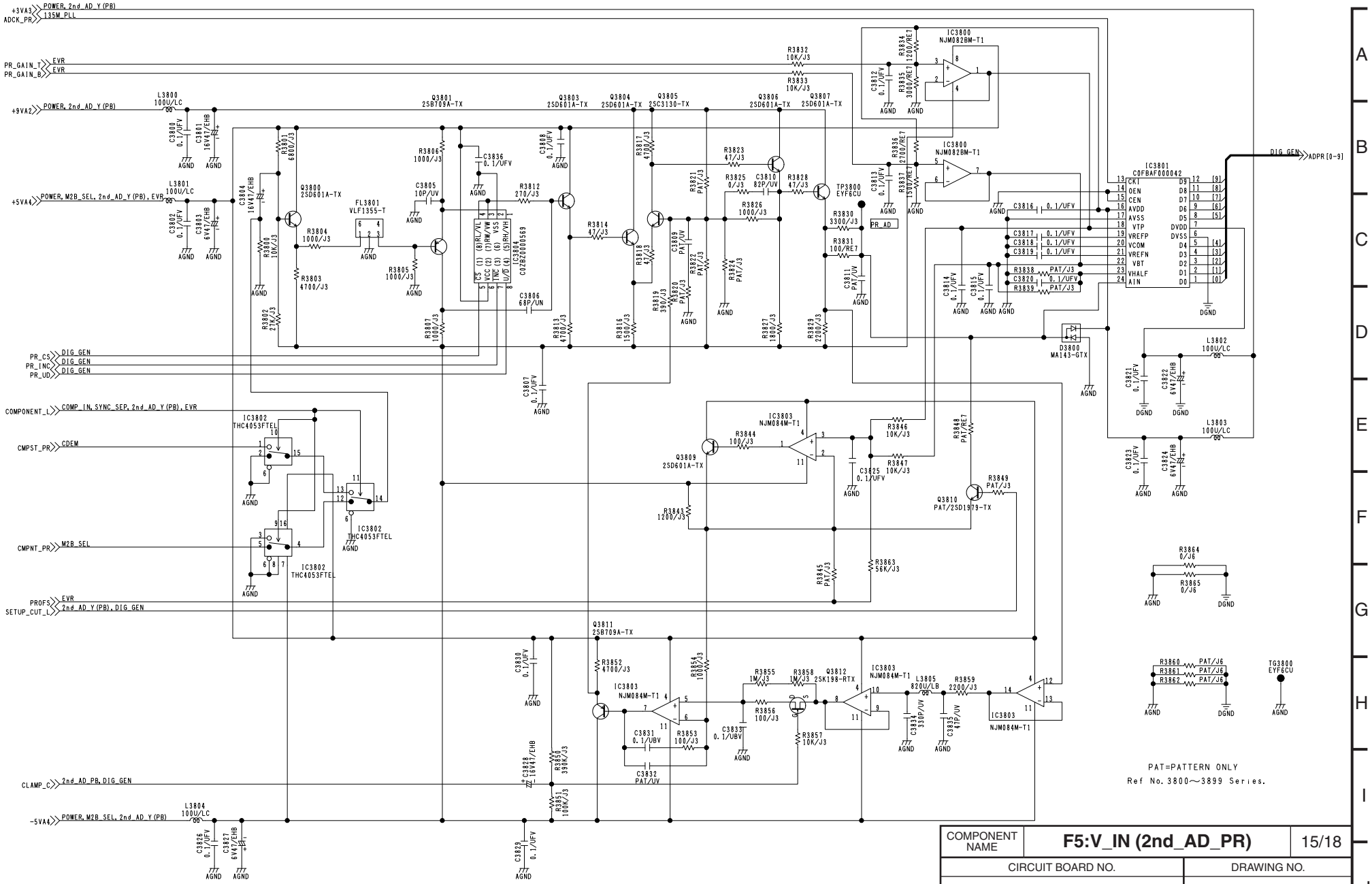
COMPONENT NAME	F5:V_IN (135M_PLL)	11/18
CIRCUIT BOARD NO.		DRAWING NO.
VEP83553B		KR2471 (11/18)
		SCM073

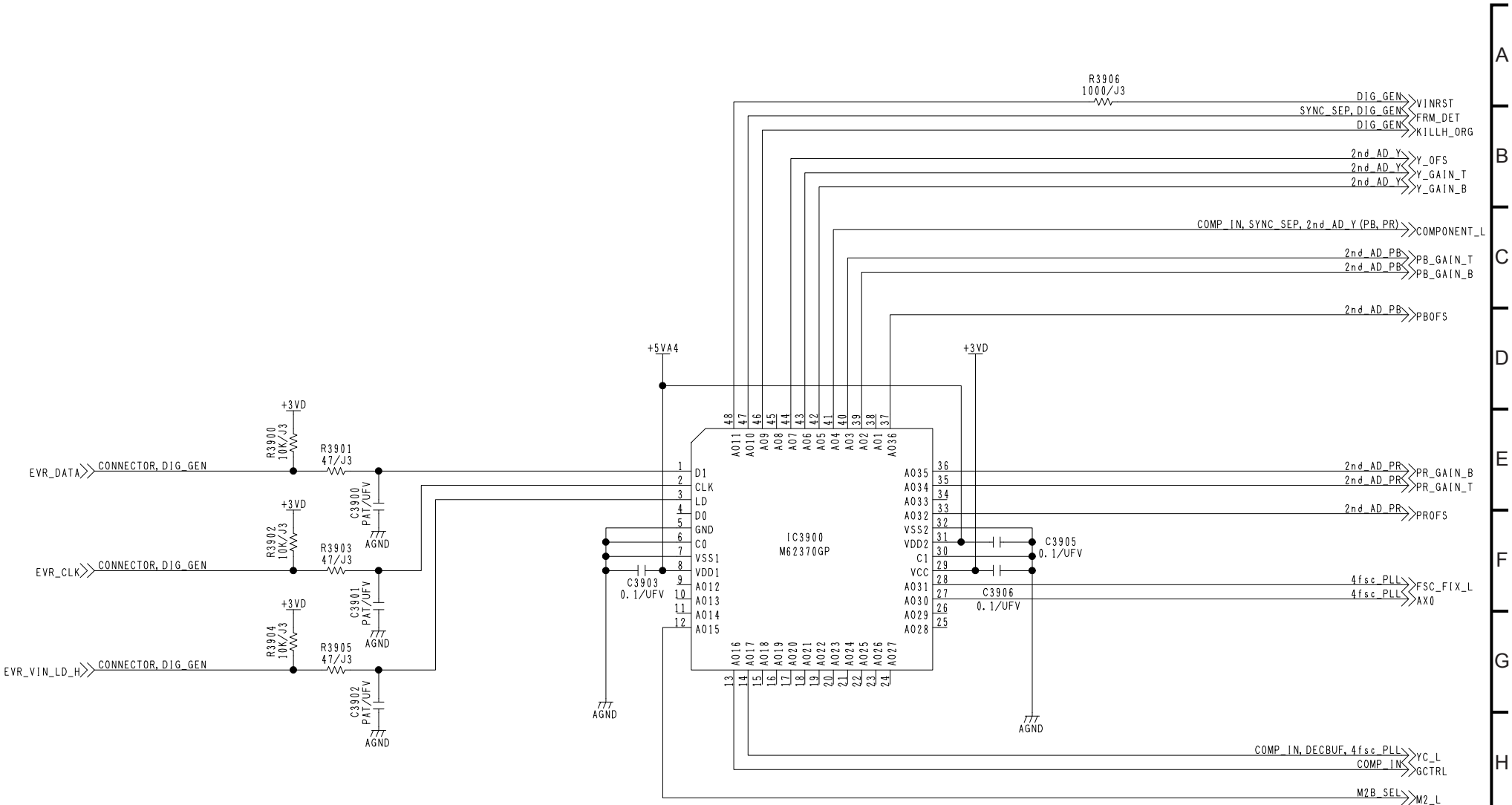

L3600 100U/LC
+5VA4
POWER, 2nd_AD_Y(PB,PR), EVR
C3600 6V47/EHB
C3601 0.1/UFV
AGND
Y_IN
CONNECTOR
C3602 6V100/EHB
R3601 47/J3
R3600 1000/J3
R3602 4700/J3
Q3600 XN4601-TX
R3607 100/RE7
2nd_AD_Y
CMPNT_Y
R3603 4700/J3
R3605 PAT/RE7
R3608 PAT/RE7
R3604 PAT/J3
Q3601 PAT/2SC3757-QRTX
R3606 PAT/J3
PR_IN
C3603 6V100/EHB
R3610 47/J3
R3609 1000/J3
R3611 2200/J3
Q3602 XN4601-TX
R3613 390/RE7
2nd_AD_PR
CMPNT_PR
R3612 4700/J3
R3614 PAT/RE7
R3615 PAT/RE7
M2_L
EVR
C3604 PAT/UFV
Q3603 PAT/XN1213-TX
R3620 PAT/RE7
R3618 2200/J3
R3621 PAT/RE7
R3623 390/RE7
PB_IN
C3605 6V100/EHB
R3617 47/J3
R3616 1000/J3
Q3604 XN4601-TX
R3622 0/J3
2nd_AD_PB
CMPNT_PB
R3619 4700/J3
-5VA4
L3601 100U/LC
POWER, 2nd_AD_Y(PB,PR)
C3606 6V47/EHB
C3607 0.1/UFV
PAT=PATTERN ONLY
Ref No. 3600～3629 Series.
COMPONENT NAME
F5:V_IN (M2B_SEL)
12/18
CIRCUIT BOARD NO.
VEP83553B
DRAWING NO.
KR2471 (12/18)
SCM074
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15



COMPONENT NAME	F5:V_IN (2nd_AD_Y)	13/18
CIRCUIT BOARD NO.		DRAWING NO.
VEP83553B		KR2471 (13/18)
		SCM075


+3VA3
ADCK_PB
POWER, 2nd_AD_Y(PR)
135M_PLL
PB_GAIN_T
PB_GAIN_B
EVR
+9VA2
+5VA4
-5VA4
POWER, M2B_SEL, 2nd_AD_Y(PR), EVR
PB_CS
PB_INC
PB_UD
DIG_GEN
COMPONENT_L
COMP_IN, SYNC_SEP, 2nd_AD_Y(PR), EVR
CMPST_PB
CDEM
CMPNT_PB
M2B_SEL
PBOFS
SETUP_CUT_L
2nd_AD_Y(PR), DIG_GEN
CLAMP_C
2nd_AD_PR, DIG_GEN
ADPB[0-9]
PB_AD
TP3700 EYF6CU
TG3700 EYF6CU
IC3700 NJM082BM-T1
IC3701 C0FBAF000042
IC3702 THC4053FTEL
IC3703 NJM084M-T1
D3700 MA143-GTX
FL3701 VLF1355-T
IC3704 C02BZ0000569
Q3700 2SD601A-TX
Q3701 2SB709A-TX
Q3703 2SD601A-TX
Q3704 2SD601A-TX
Q3705 2SC3130-TX
Q3706 2SD601A-TX
Q3707 2SD601A-TX
Q3709 2SD601A-TX
Q3710 PAT/2SD1979-TX
Q3711 2SB709A-TX
Q3712 2SK198-RTX
AGND
DGND
PAT=PATTERN ONLY
Ref No. 3700～3799 Series.
COMPONENT NAME
F5:V_IN (2nd_AD_PB)
14/18
CIRCUIT BOARD NO.
VEP83553B
DRAWING NO.
KR2471 (14/18)
SCM076

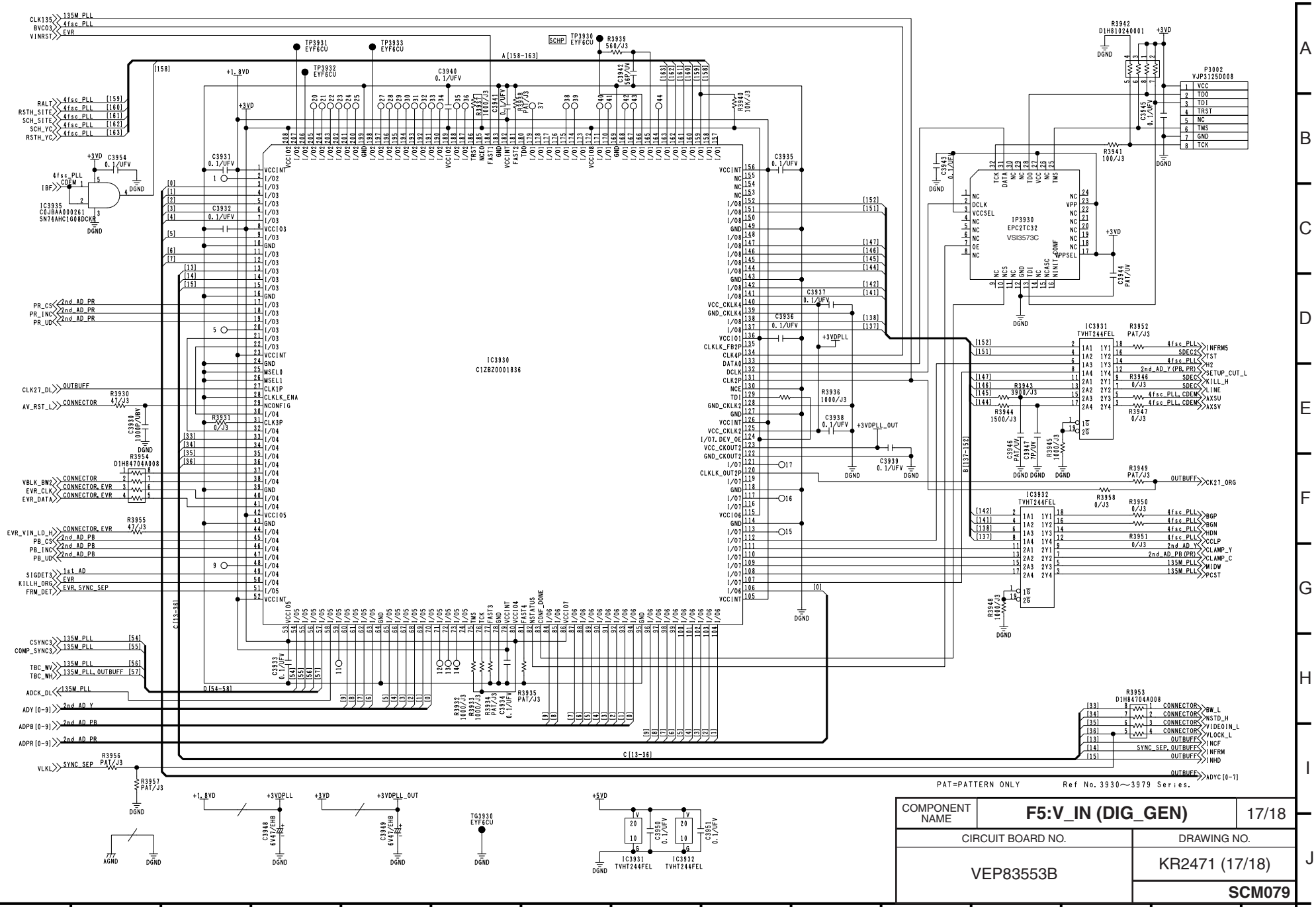

+3VA3
ADCK_PR
POWER, 2nd_AD_Y (PB)
135M_PLL
PR_GAIN_T
PR_GAIN_B
EVR
+9VA2
+5VA4
POWER, M2B_SEL, 2nd_AD_Y (PB), EVR
-5VA4
POWER, M2B_SEL, 2nd_AD_Y (PB)
PR_CS
PR_INC
PR_UD
DIG GEN
COMPONENT_L
COMP_IN, SYNC_SEP, 2nd_AD_Y (PB), EVR
CMPST_PR
CDEM
CMPNT_PR
M2B SEL
PROFS
SETUP_CUT_L
2nd_AD_Y (PB), DIG GEN
CLAMP_C
2nd_AD_PB, DIG GEN
ADPR [0-9]
PR_AD
PAT=PATTERN ONLY
Ref No. 3800～3899 Series.
COMPONENT NAME
F5:V_IN (2nd_AD_PR)
15/18
CIRCUIT BOARD NO.
VEP83553B
DRAWING NO.
KR2471 (15/18)
SCM077



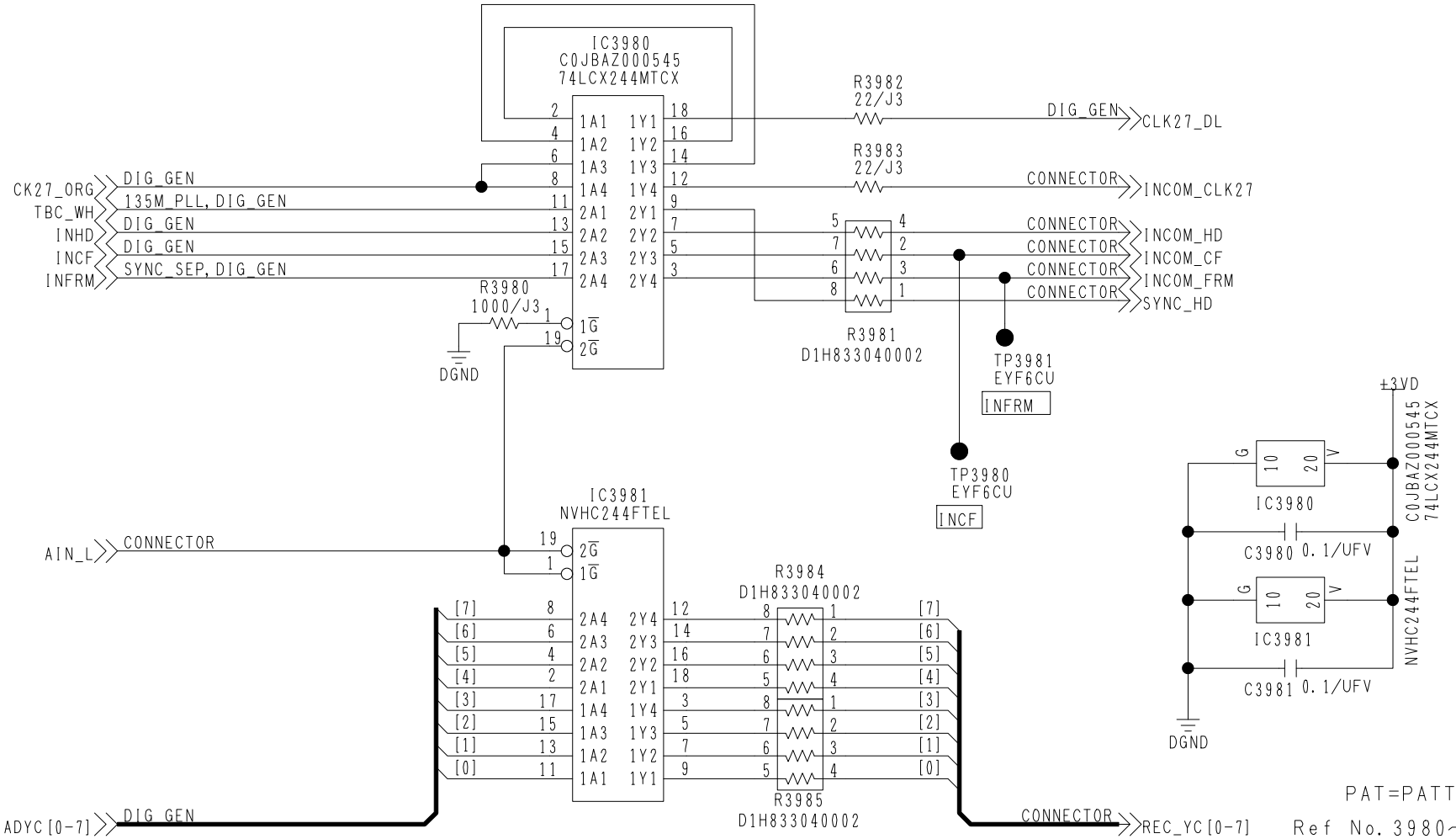
PAT=PATTERN ONLY

Ref No. 3900～3929 Series.

COMPONENT NAME	F5:V_IN (EVR)	16/18
CIRCUIT BOARD NO.		DRAWING NO.
VEP83553B		KR2471 (16/18)
		SCM078



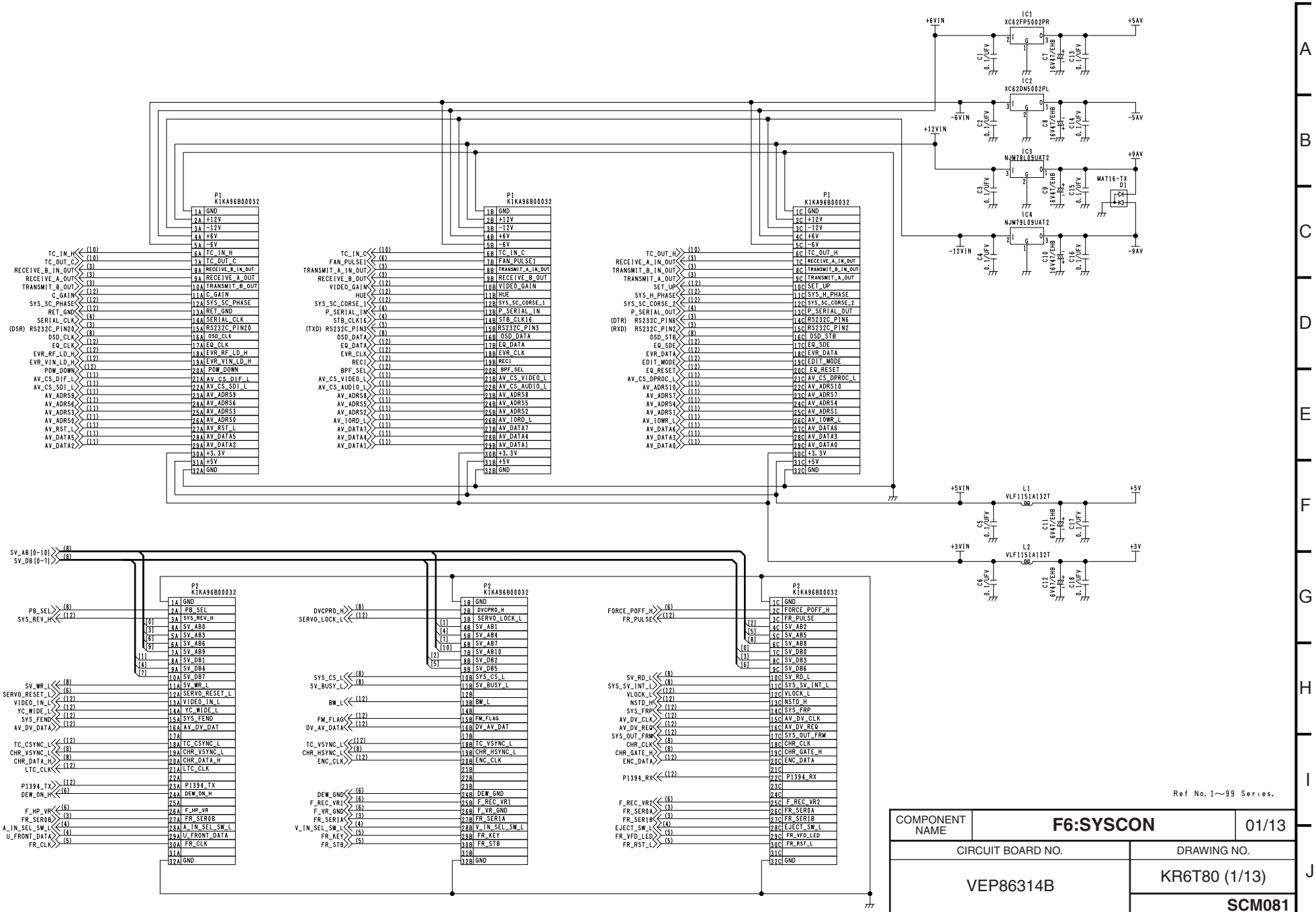
COMPONENT NAME	F5:V_IN (DIG_GEN)	17/18
CIRCUIT BOARD NO.		DRAWING NO.
VEP83553B		KR2471 (17/18)
		SCM079

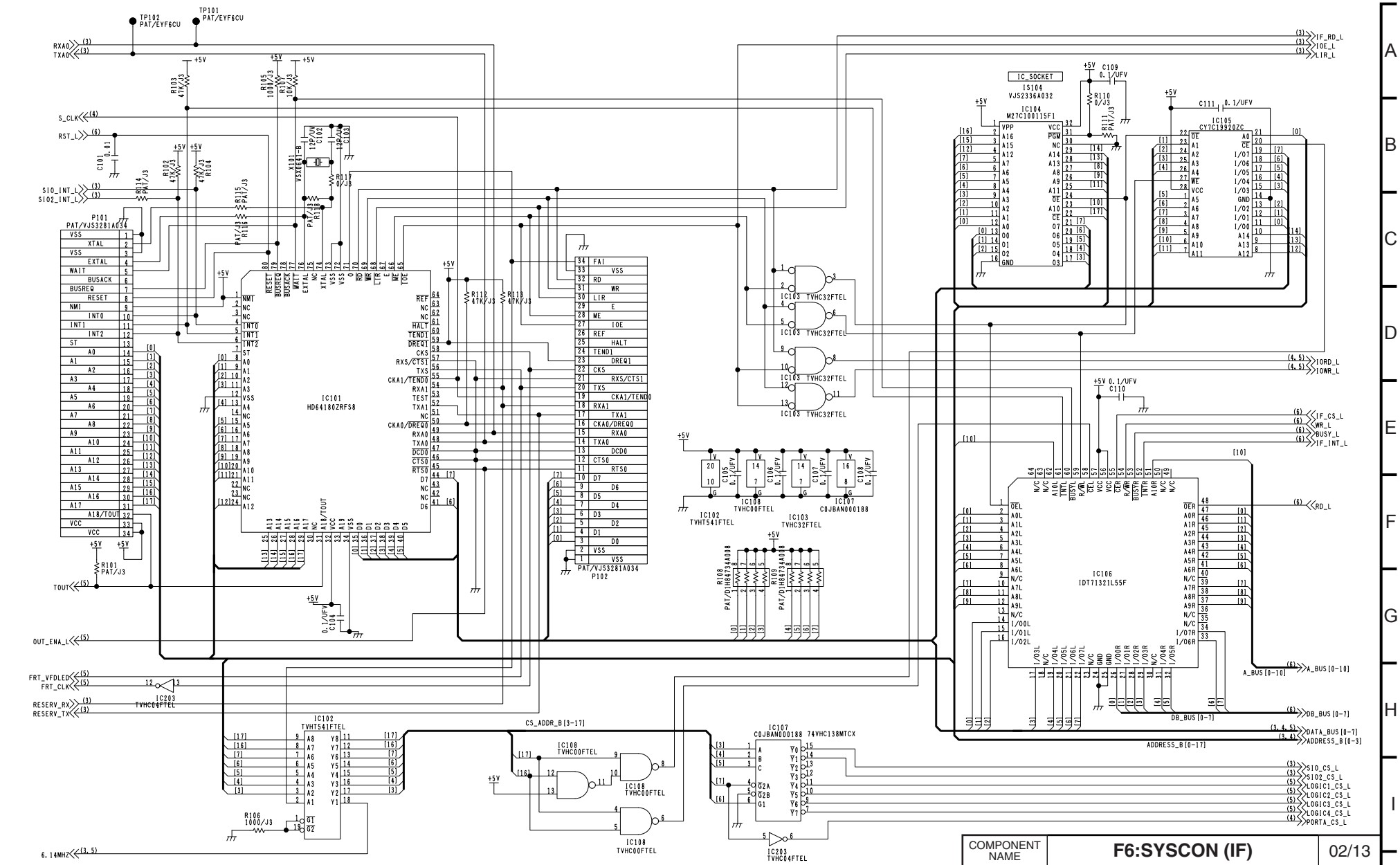


PAT=PATTERN ONLY

Ref No. 3980～3999 Series.

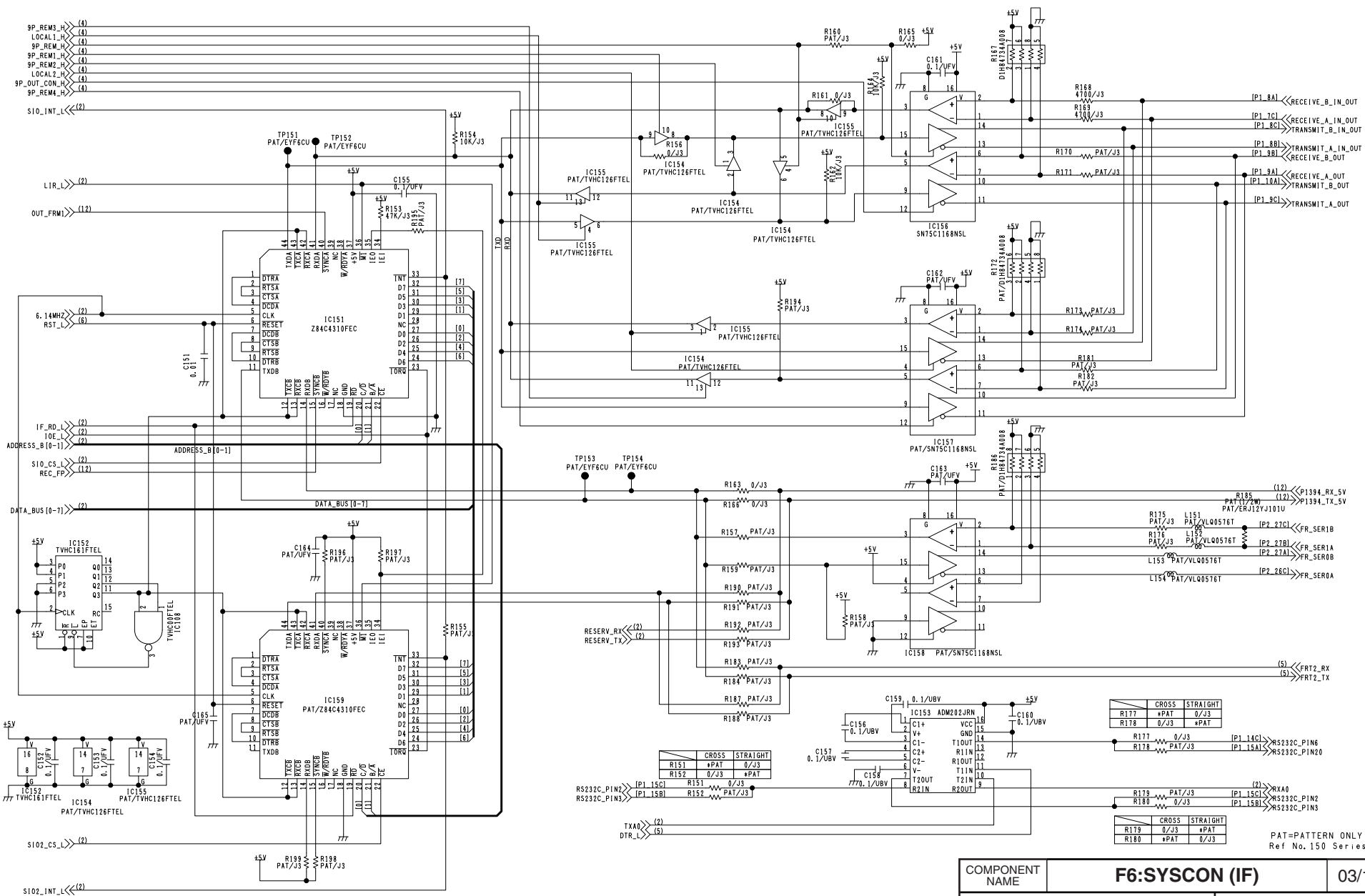
COMPONENT NAME	F5:V_IN (OUTBUFF)	18/18
CIRCUIT BOARD NO.		DRAWING NO.
VEP83553B		KR2471 (18/18)
		SCM080


+6VIN
IC1
XC62FP5002PR
+5AV
-6VIN
IC2
XC62DN5002PL
-5AV
+12VIN
IC3
NJM78L09UAT2
+9AV
MA716-TX
D1
IC4
NJM79L09UAT2
-12VIN
-9AV
P1
K1KA96B00032
P2
K1KA96B00032
+5VIN
L1
VLF115IA132T
+5V
+3VIN
L2
VLF115IA132T
+3V
SV_AB[0-10]
SV_DB[0-7]
Ref No. 1～99 Series.
COMPONENT NAME
F6:SYSCON
01/13
CIRCUIT BOARD NO.
VEP86314B
DRAWING NO.
KR6T80 (1/13)
SCM081

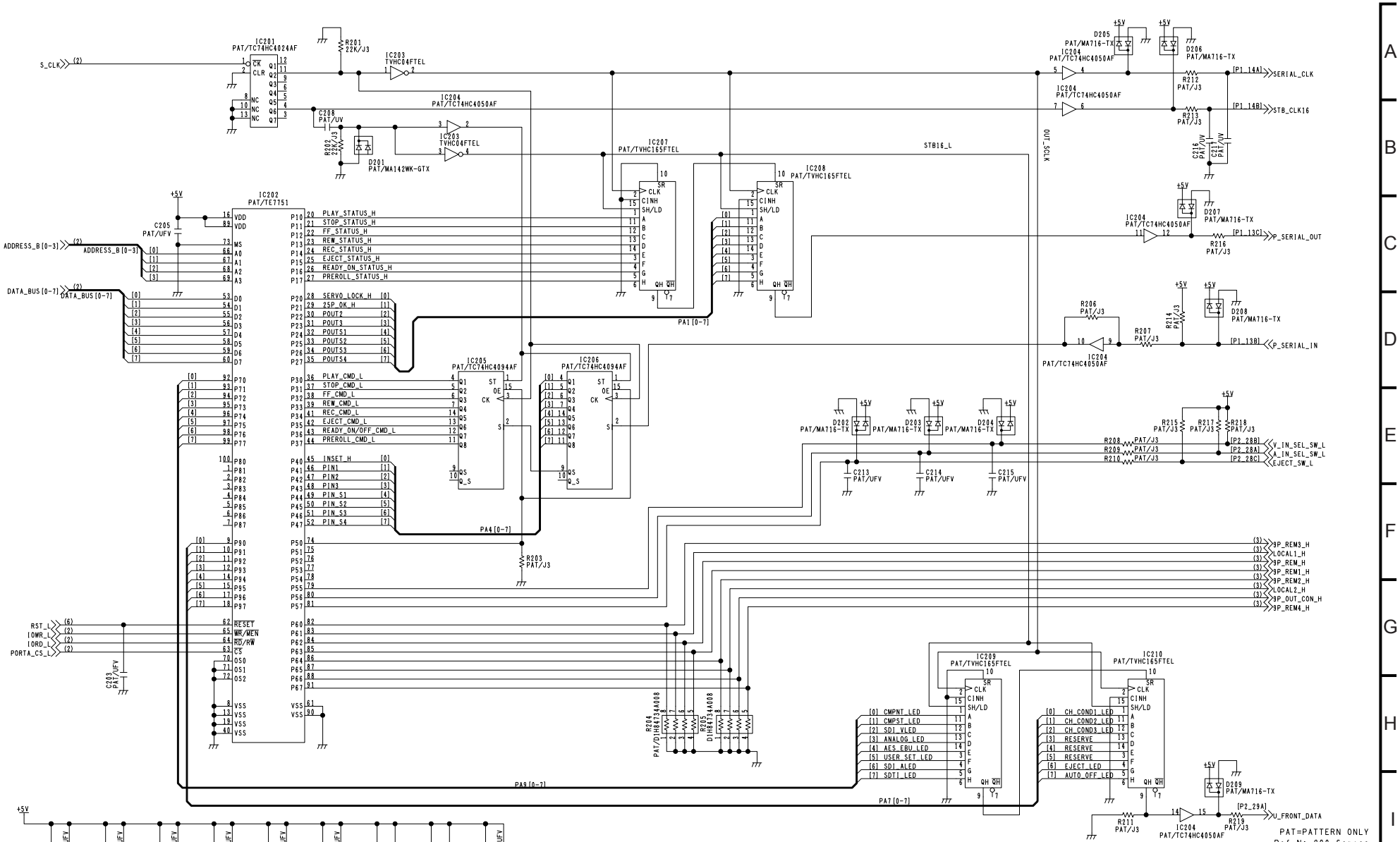


PAT=PATTERN ONLY
Ref No. 100 Series.

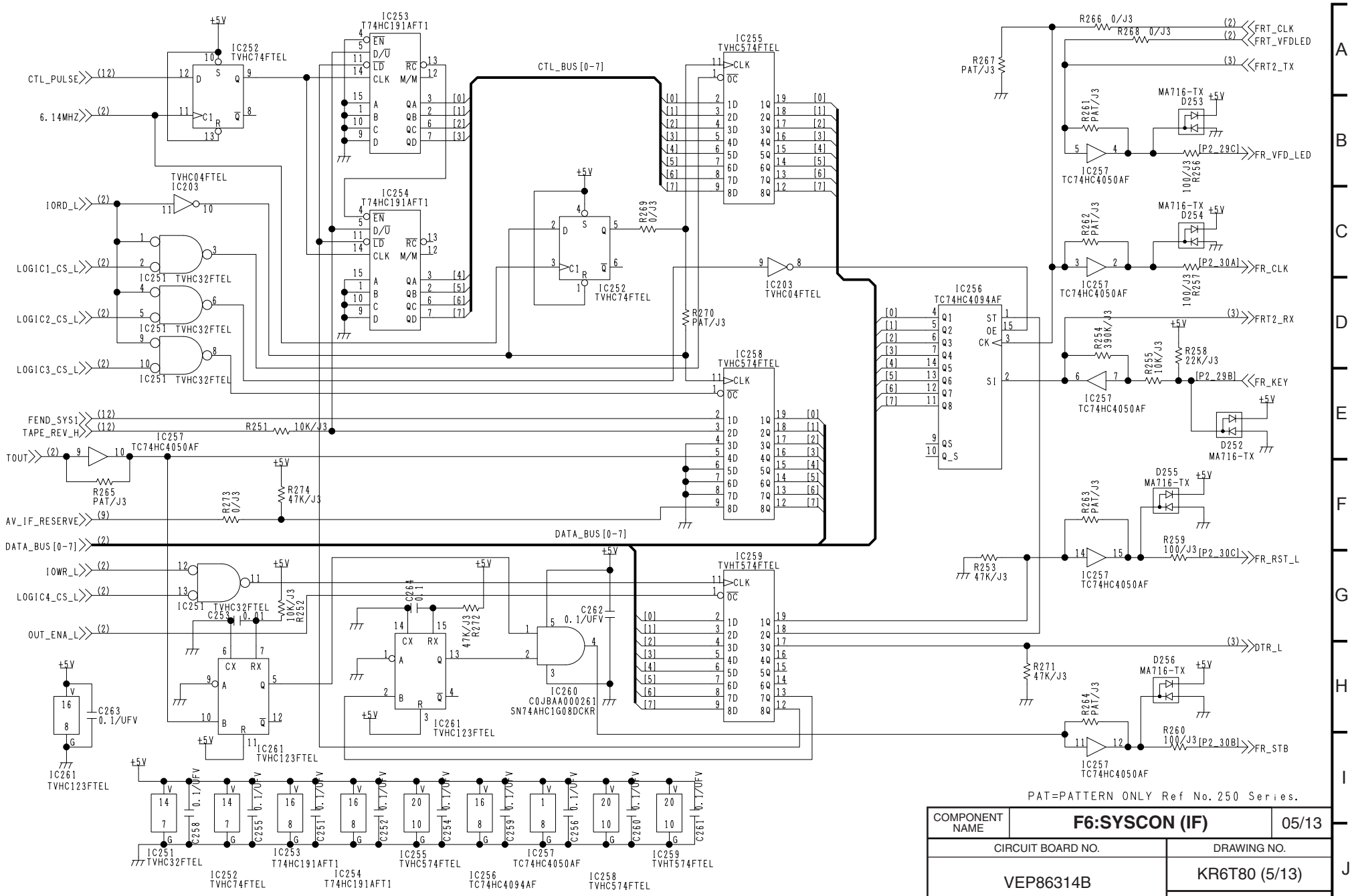
COMPONENT NAME	F6:SYSCON (IF)	02/13
CIRCUIT BOARD NO.		DRAWING NO.
VEP86314B		KR6T80 (2/13)
		SCM082

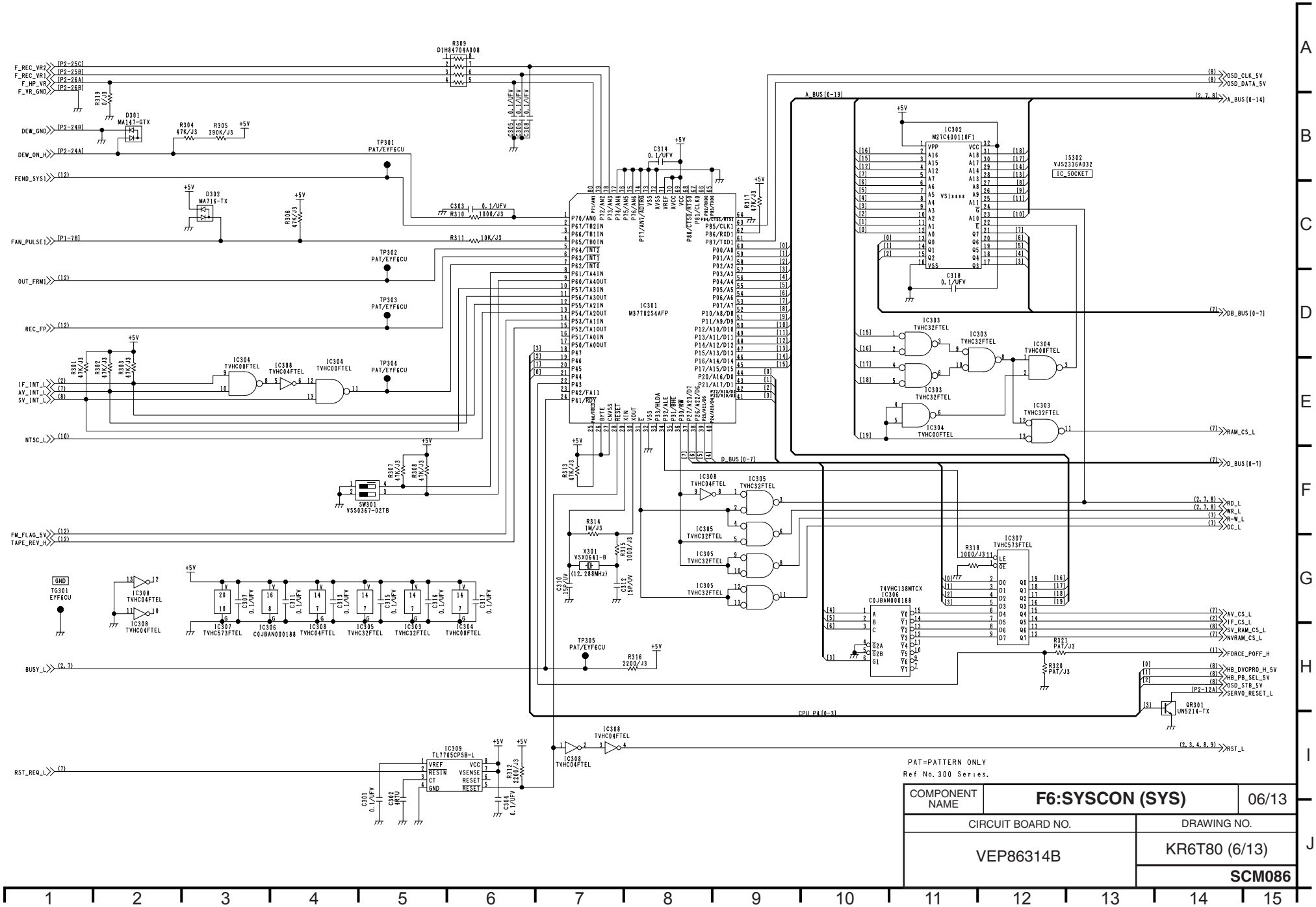


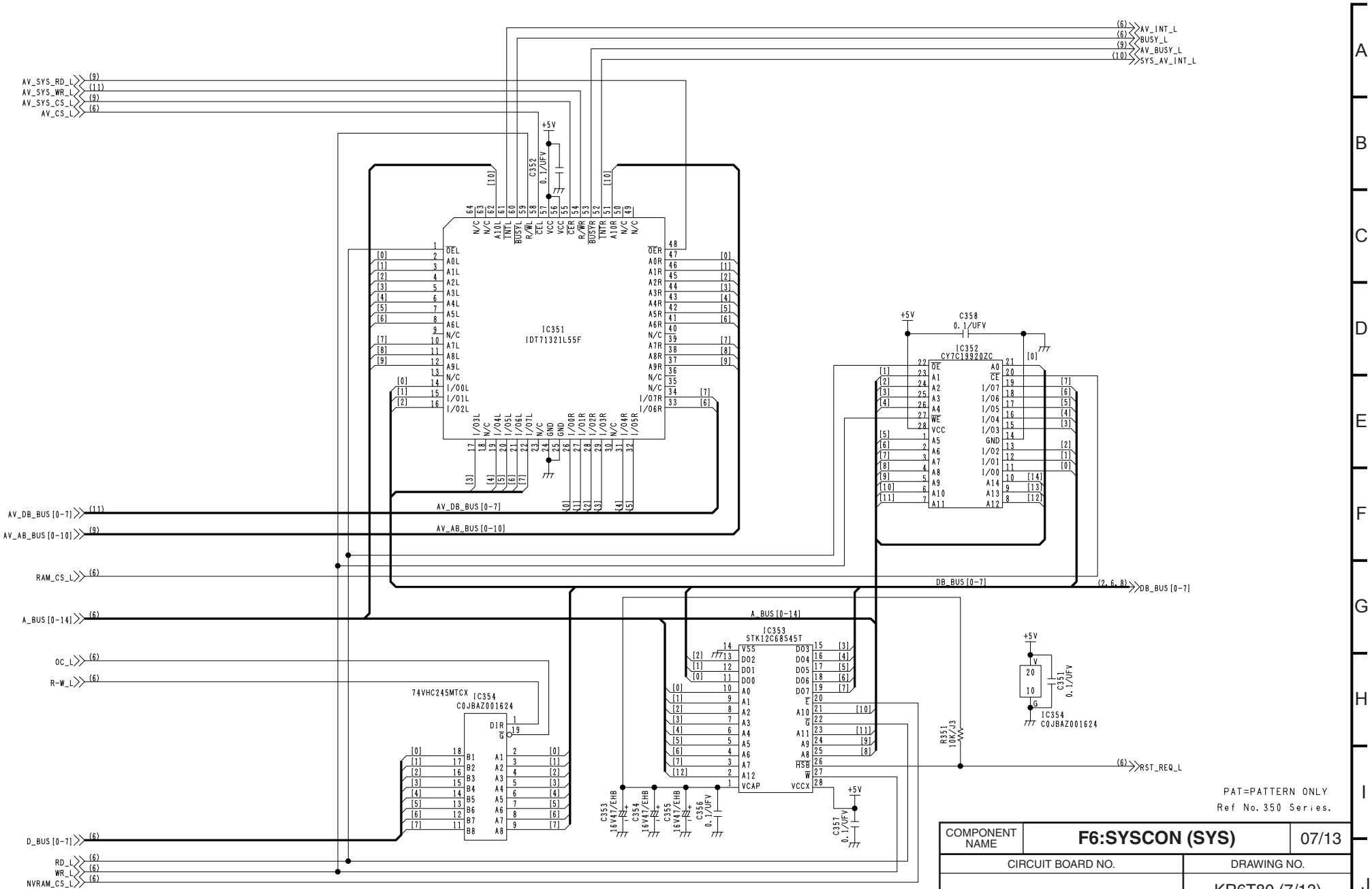
COMPONENT NAME	F6:SYSCON (IF)	03/13
CIRCUIT BOARD NO.		DRAWING NO.
VEP86314B		KR6T80 (3/13)
		SCM083



COMPONENT NAME	F6:SYSCON (IF)	04/13
CIRCUIT BOARD NO.		DRAWING NO.
VEP86314B		KR6T80 (4/13)
		SCM084

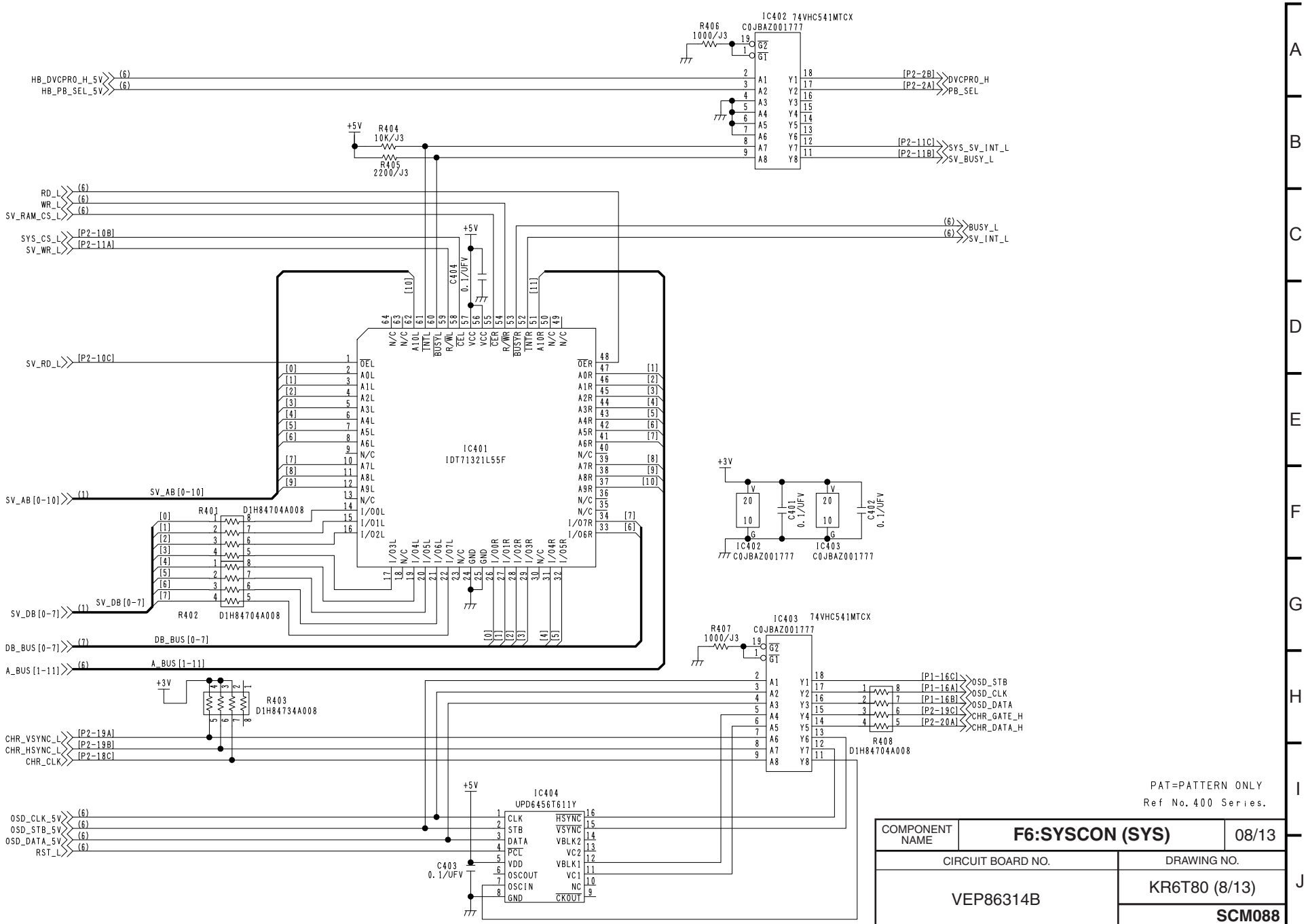

CTL_PULSE
6.14MHZ
IORD_L
LOGIC1_CS_L
LOGIC2_CS_L
LOGIC3_CS_L
FEND_SYS1
TAPE_REV_H
TOUT
AV_IF_RESERVE
DATA_BUS[0-7]
IOWR_L
LOGIC4_CS_L
OUT_ENA_L
CTL_BUS[0-7]
IC252 TVHC74FTEL
IC253 T74HC191AFT1
IC254 T74HC191AFT1
IC255 TVHC574FTEL
IC203 TVHC04FTEL
IC251 TVHC32FTEL
IC256 TC74HC4094AF
IC258 TVHC574FTEL
IC257 TC74HC4050AF
IC259 TVHT574FTEL
IC260 C0JBAA000261 SN74AHC1G08DCKR
IC261 TVHC123FTEL
R251 10K/J3
R252 10K/J3
R253 47K/J3
R254 390K/J3
R255 10K/J3
R256 100/J3
R257 100/J3
R258 22K/J3
R259 100/J3
R260 100/J3
R261 PAT/J3
R262 PAT/J3
R263 PAT/J3
R264 PAT/J3
R265 PAT/J3
R266 0/J3
R267 PAT/J3
R268 0/J3
R269 0/J3
R270 PAT/J3
R271 47K/J3
R272 47K/J3
R273 0/J3
R274 47K/J3
C252 0.01
C253 0.01
C262 0.1/UFV
C263 0.1/UFV
C264 0.1
MA716-TX D252
MA716-TX D253
MA716-TX D254
MA716-TX D255
MA716-TX D256
FRT_CLK
FRT_VFDLED
FRT2_TX
FR_VFD_LED
FR_CLK
FRT2_RX
FR_KEY
FR_RST_L
DTR_L
FR_STB
[P2_29C]
[P2_30A]
[P2_29B]
[P2_30C]
[P2_30B]
PAT=PATTERN ONLY Ref No. 250 Series.
COMPONENT NAME
F6:SYSCON (IF)
05/13
CIRCUIT BOARD NO.
VEP86314B
DRAWING NO.
KR6T80 (5/13)
SCM085

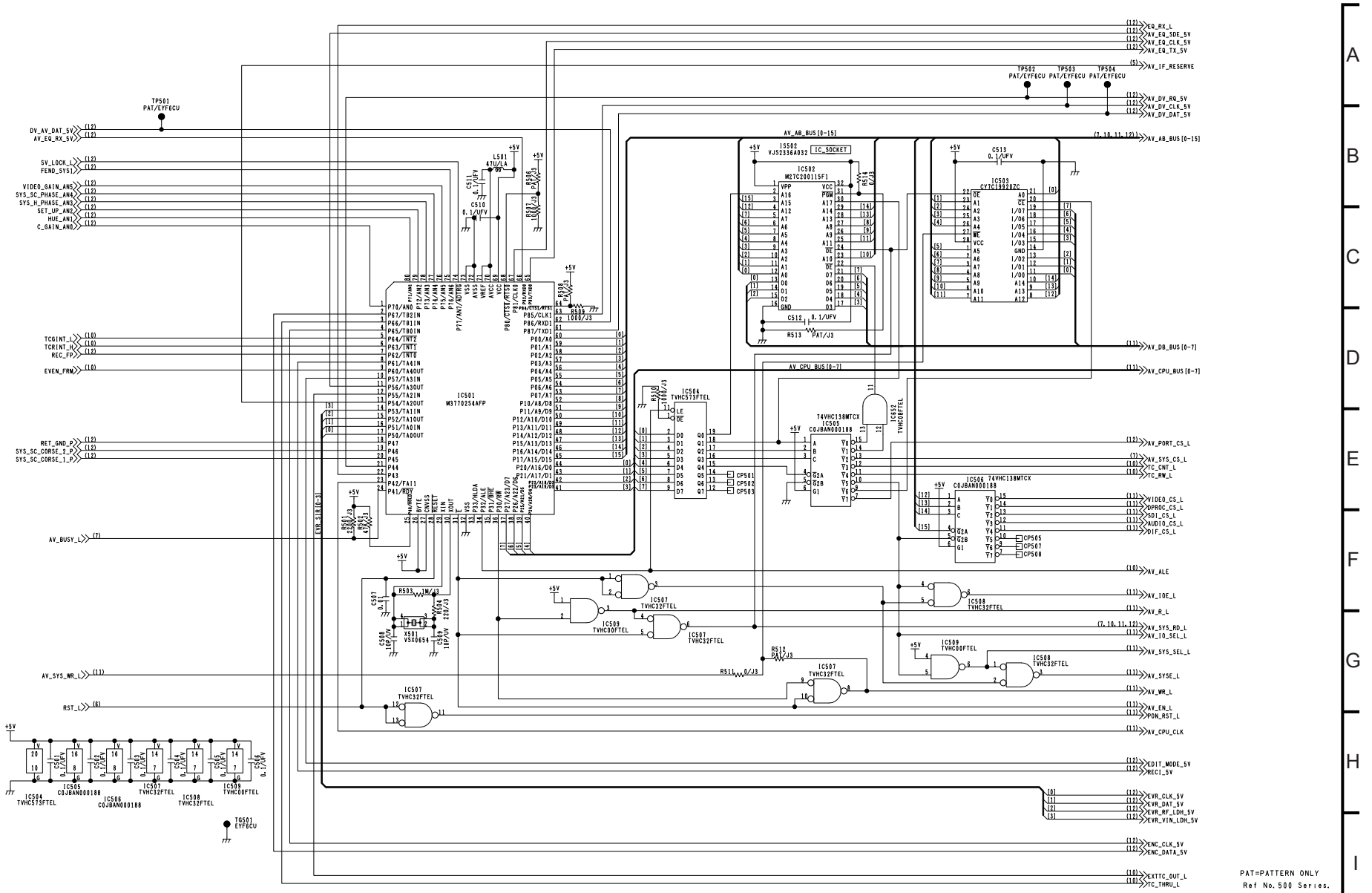

F_REC_VR2 [P2-25C]
F_REC_VR1 [P2-25B]
F_HP_VR [P2-26A]
F_VR_GND [P2-26B]
DEW_GND [P2-24B]
DEW_ON_H [P2-24A]
FEND_SYS1 (12)
FAN_PULSE1 [P1-7B]
OUT_FRM1 (12)
REC_FP (12)
IF_INT_L (2)
AV_INT_L (7)
SV_INT_L (8)
NTSC_L (10)
FW_FLAG_5V (12)
TAPE_REV_H (12)
BUSY_L (2, 7)
RST_REQ_L (7)
R309 DIH84704A008
D301 MA147-GTX
D302 MA716-TX
TP301 PAT/EYF6CU
TP302 PAT/EYF6CU
TP303 PAT/EYF6CU
TP304 PAT/EYF6CU
TP305 PAT/EYF6CU
SW301 VSS0367-02TB
X301 VSX0641-B (12.288MHz)
IC301 M37702S4AFP
IC302 M27C400110F1
IS302 VJS2336A032 IC_SOCKET
IC303 TVHC32FTEL
IC304 TVHC00FTEL
IC305 TVHC32FTEL
IC306 T4VHC138MTCX C0JBAN000188
IC307 TVHC573FTEL
IC308 TVHC04FTEL
IC309 TL7705CPSB-L
OSD_CLK_5V (8)
OSD_DATA_5V (8)
A_BUS [0-14] (2, 7, 8)
DB_BUS [0-7] (7)
RAM_CS_L (7)
D_BUS [0-7] (7)
RD_L (2, 7, 8)
WR_L (2, 7, 8)
R-W_L (7)
OC_L (7)
AV_CS_L (7)
IF_CS_L (2)
SV_RAM_CS_L (8)
NVRAM_CS_L (7)
FORCE_POFF_H (1)
HB_DVCPRO_H_5V (8)
HB_PB_SEL_5V (8)
OSD_STB_5V (8)
SERVO_RESET_L (8)
QR301 UN5214-TX
RST_L (2, 3, 4, 8, 9)
CPU P4 [0-3]
PAT=PATTERN ONLY
Ref No. 300 Series.
COMPONENT NAME
F6:SYSCON (SYS)
06/13
CIRCUIT BOARD NO.
VEP86314B
DRAWING NO.
KR6T80 (6/13)
SCM086



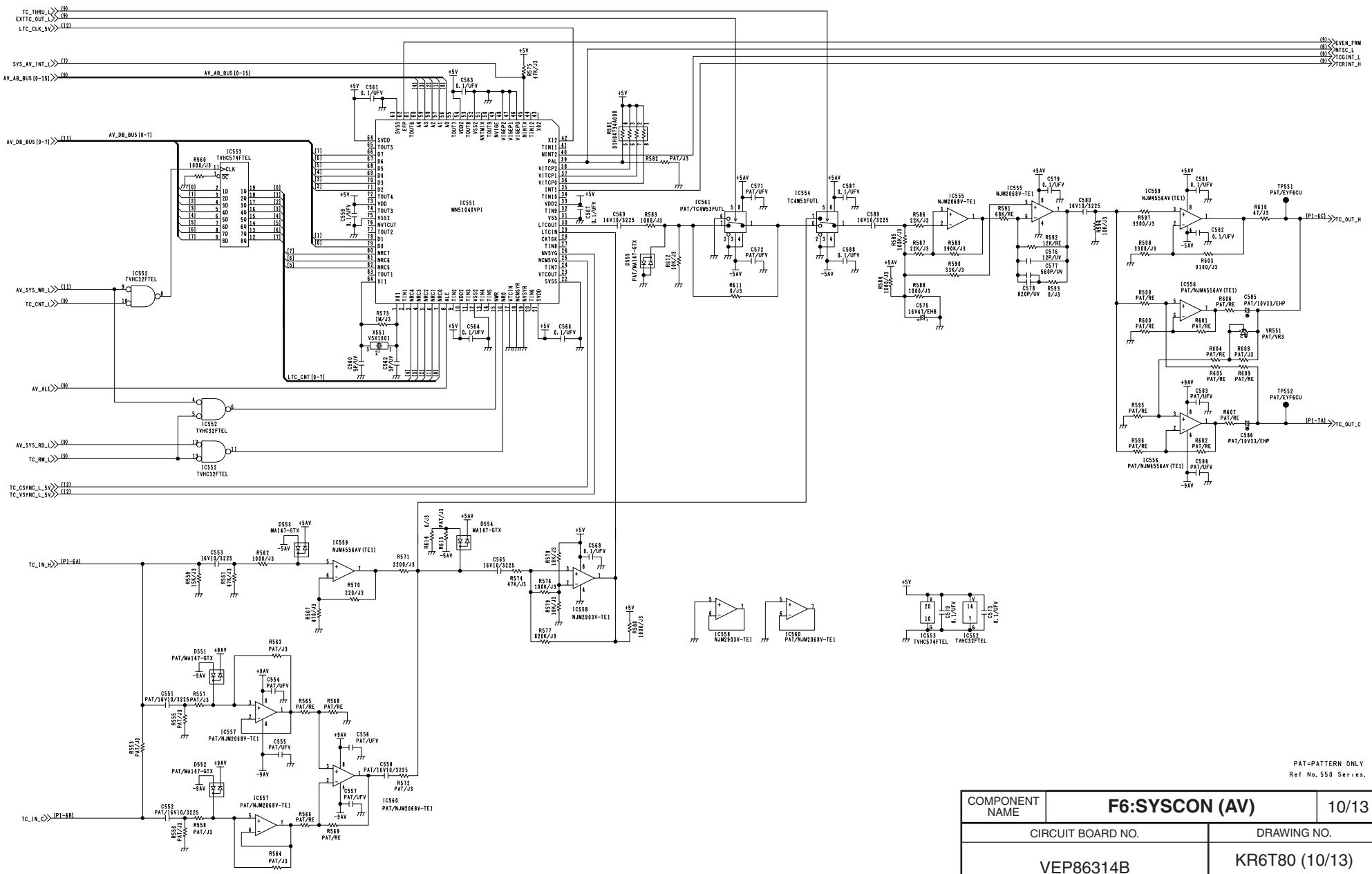
PAT=PATTERN ONLY
Ref No. 350 Series.

COMPONENT NAME	F6:SYSCON (SYS)	07/13
CIRCUIT BOARD NO.		DRAWING NO.
VEP86314B		KR6T80 (7/13)
		SCM087

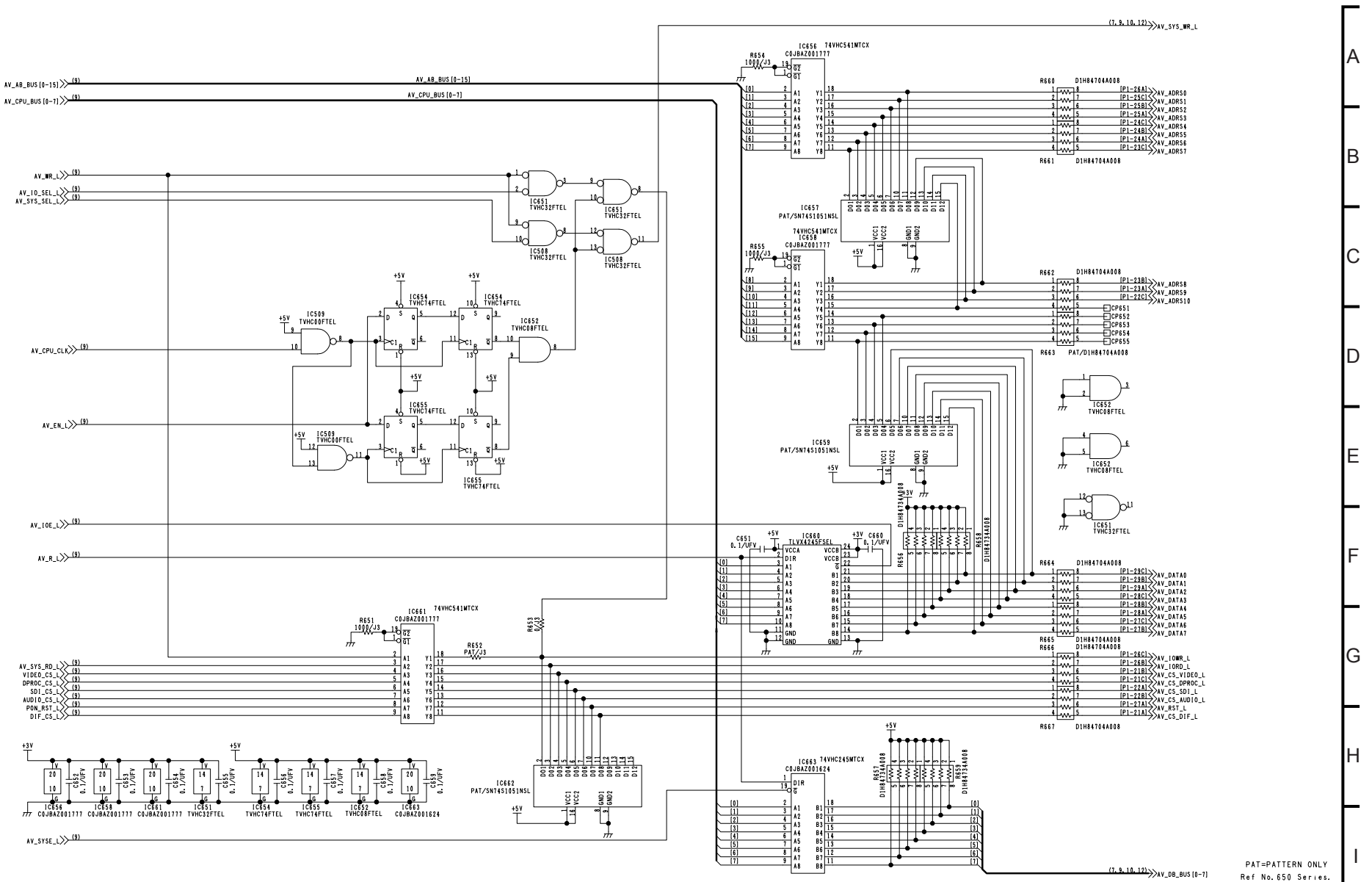

IC402 74VHC541MTCX
C0JBAZ001777
R406
1000/J3
HB_DVCPRO_H_5V
HB_PB_SEL_5V
DVCPRO_H
PB_SEL
R404
10K/J3
R405
2200/J3
+5V
SYS_SV_INT_L
SV_BUSY_L
RD_L
WR_L
SV_RAM_CS_L
SYS_CS_L
SV_WR_L
BUSY_L
SV_INT_L
C404
0.1/UFV
IC401
IDT71321L55F
SV_RD_L
SV_AB[0-10]
SV_DB[0-7]
DB_BUS[0-7]
A_BUS[1-11]
R401
D1H84704A008
R402
D1H84704A008
IC402
C0JBAZ001777
IC403
C0JBAZ001777
C401
0.1/UFV
C402
0.1/UFV
+3V
IC403 74VHC541MTCX
C0JBAZ001777
R407
1000/J3
R408
D1H84704A008
OSD_STB
OSD_CLK
OSD_DATA
CHR_GATE_H
CHR_DATA_H
R403
D1H84734A008
CHR_VSYNC_L
CHR_HSYNC_L
CHR_CLK
IC404
UPD6456T611Y
C403
0.1/UFV
OSD_CLK_5V
OSD_STB_5V
OSD_DATA_5V
RST_L
PAT=PATTERN ONLY
Ref No. 400 Series.
COMPONENT NAME
F6:SYSCON (SYS)
08/13
CIRCUIT BOARD NO.
VEP86314B
DRAWING NO.
KR6T80 (8/13)
SCM088



COMPONENT NAME	F6:SYSCON (AV)	09/13
CIRCUIT BOARD NO.		DRAWING NO.
VEP86314B		KR6T80 (9/13)
		SCM089

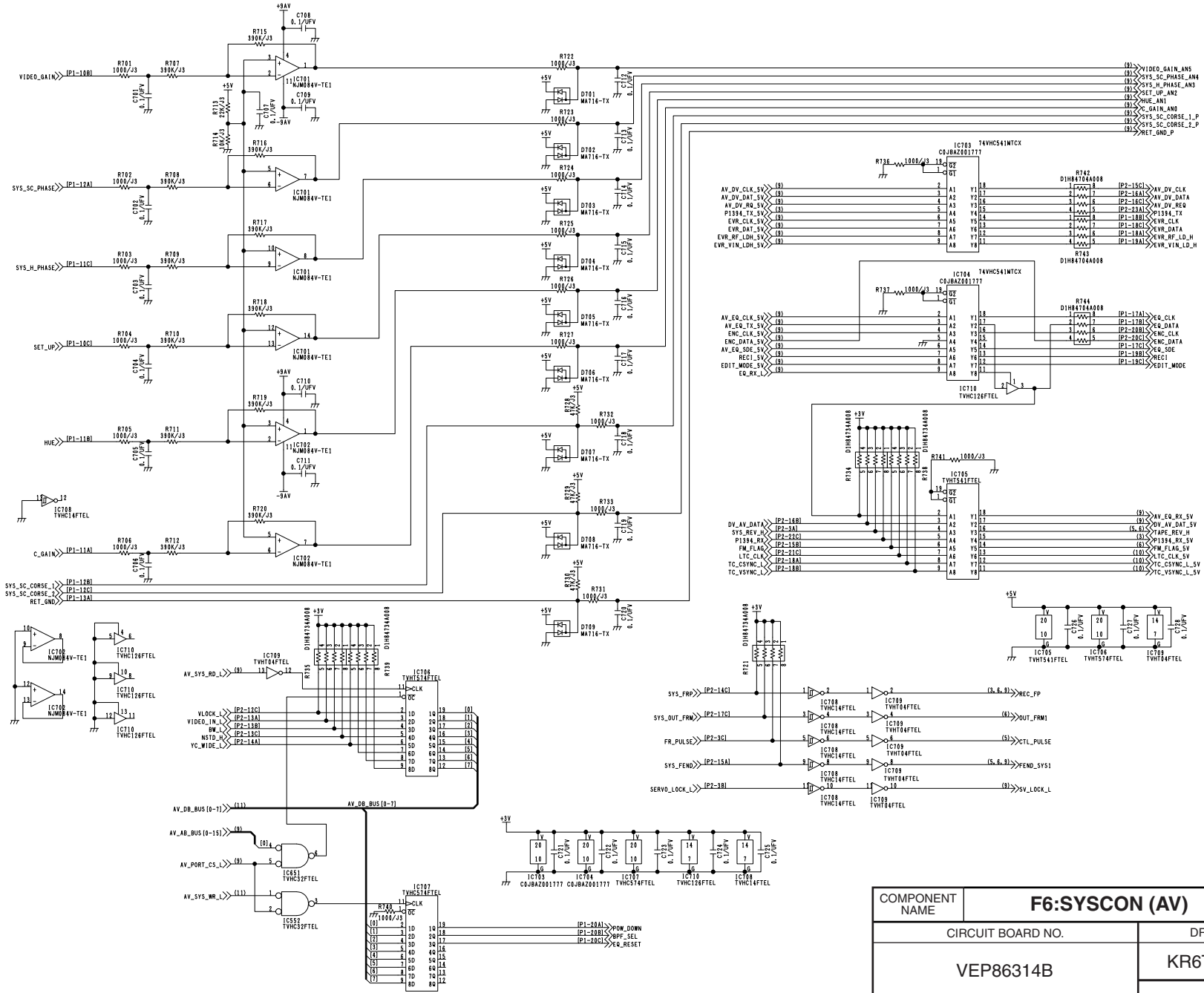


COMPONENT NAME	F6:SYSCON (AV)	10/13
CIRCUIT BOARD NO.		DRAWING NO.
VEP86314B		KR6T80 (10/13)
		SCM090



PAT=PATTERN ONLY
Ref No.650 Series.

COMPONENT NAME	F6:SYSCON (AV)	11/13
CIRCUIT BOARD NO.		DRAWING NO.
VEP86314B		KR6T80 (11/13)
		SCM091



Ref No. 700 Series.

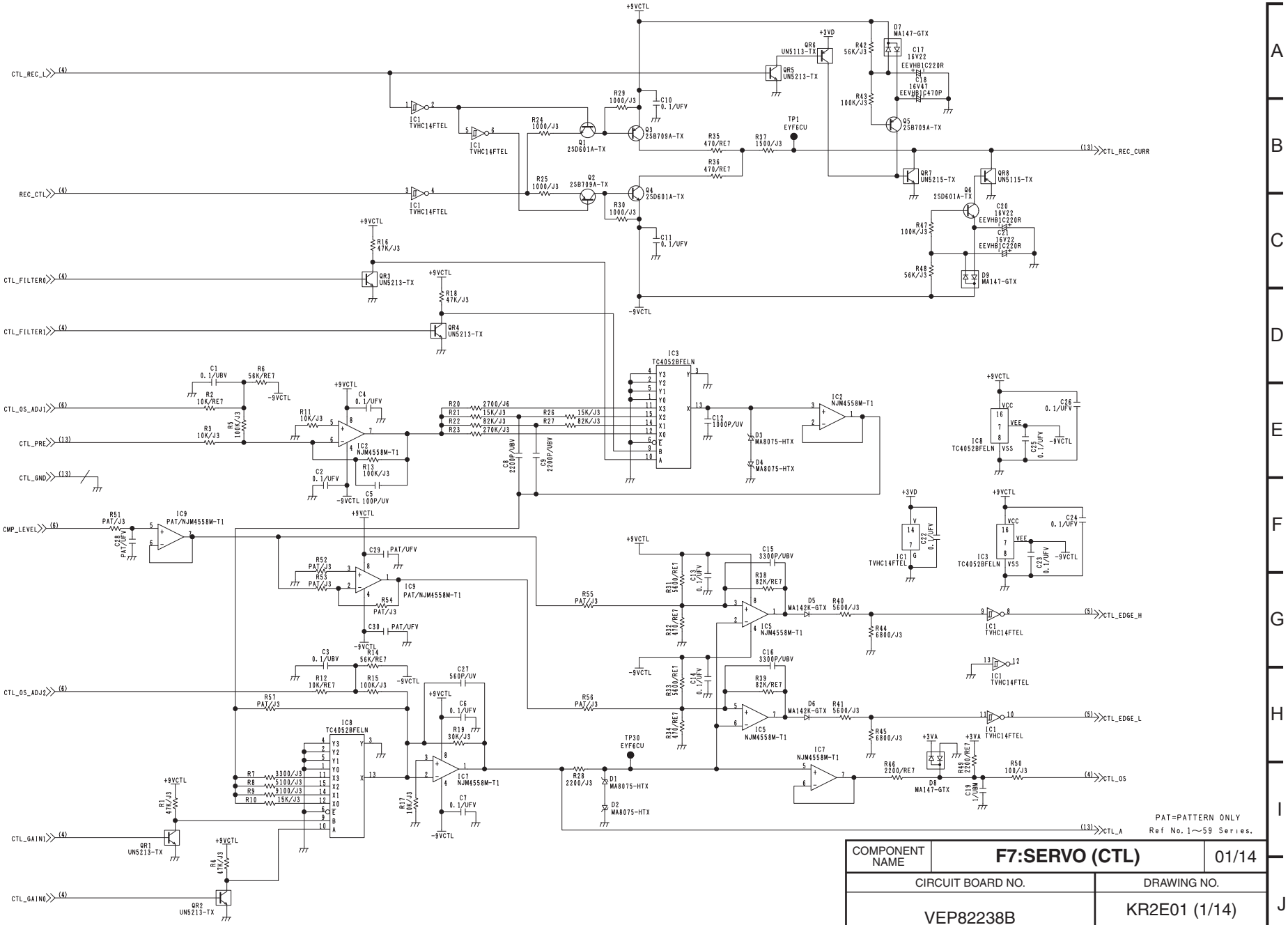
COMPONENT NAME	F6:SYSCON (AV)	12/13
CIRCUIT BOARD NO.		DRAWING NO.
VEP86314B		KR6T80 (12/13)
		SCM092

	AJ-D455E		
IC104 (M27C100115F1)	VSI3558A		
IC302 (M27C400110F1)	VSI3562A		
IC502 (M27C200115F)	VSI3564B		

COMPONENT NAME	SYSCON	13/13
CIRCUIT BOARD NO.		DRAWING NO.
VEP85314B		KR6T80 (13/13)
		SCM093

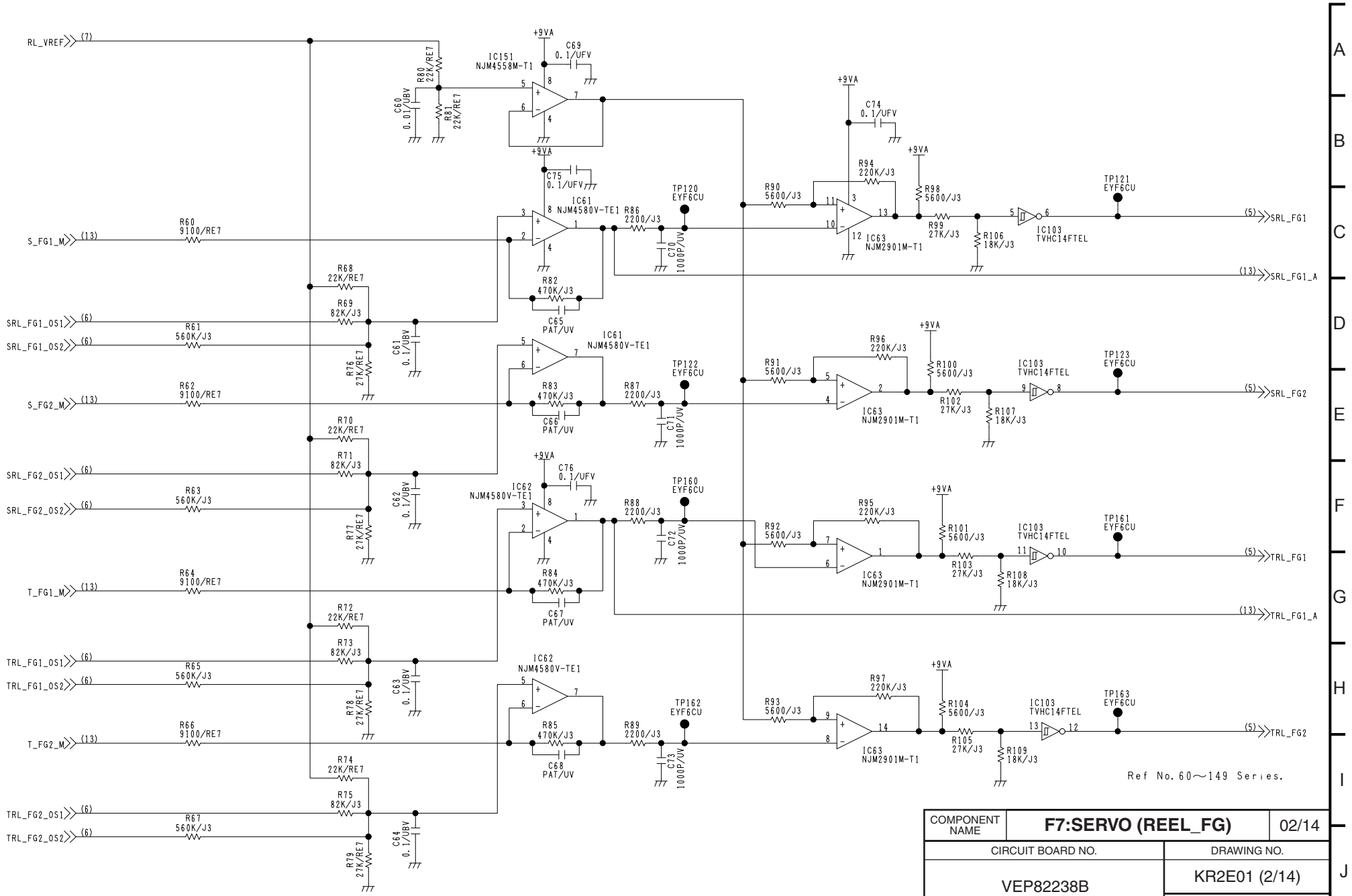
A B C D E F G H I J

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

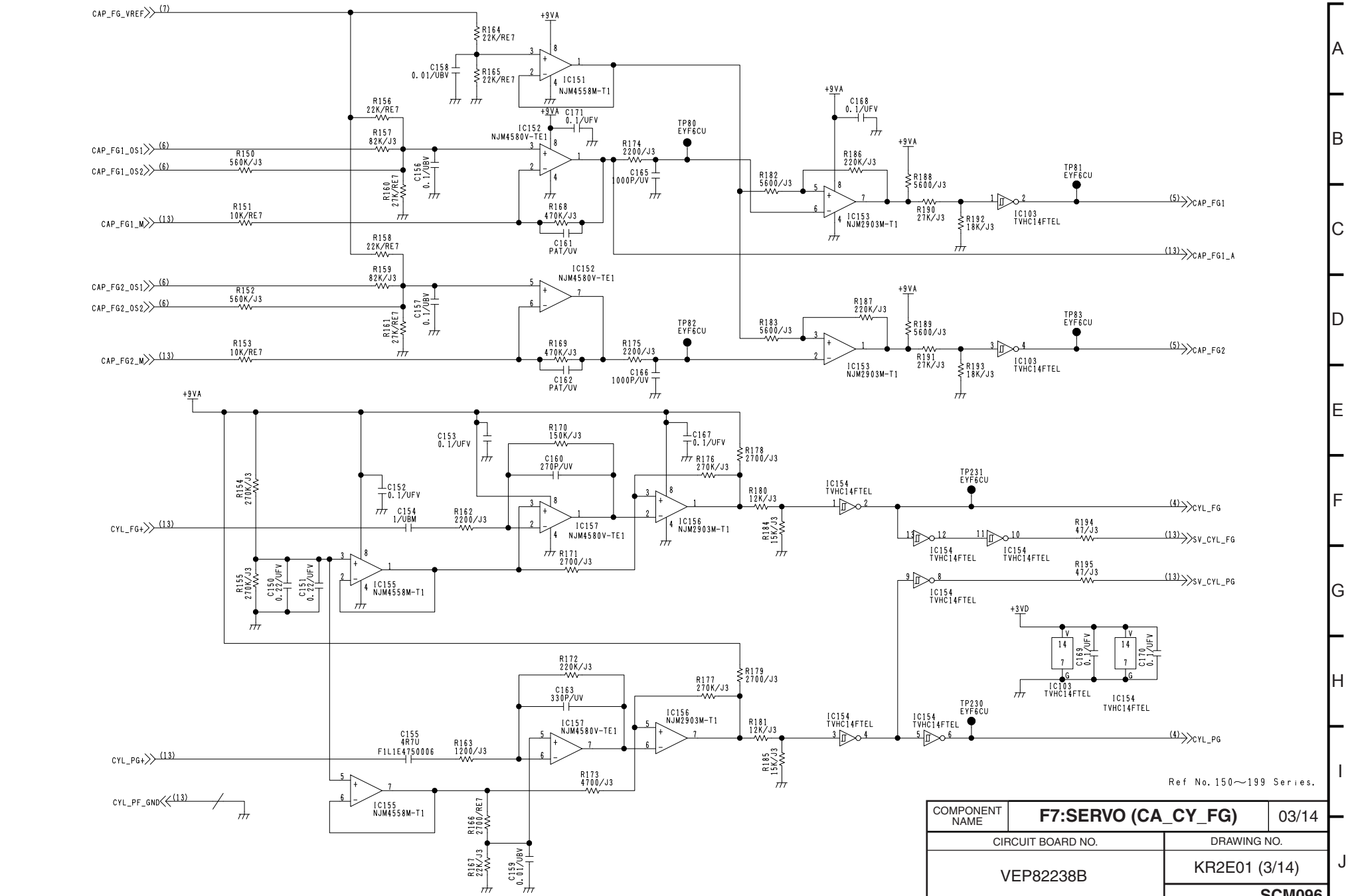


PAT=PATTERN ONLY
Ref No. 1～59 Series.

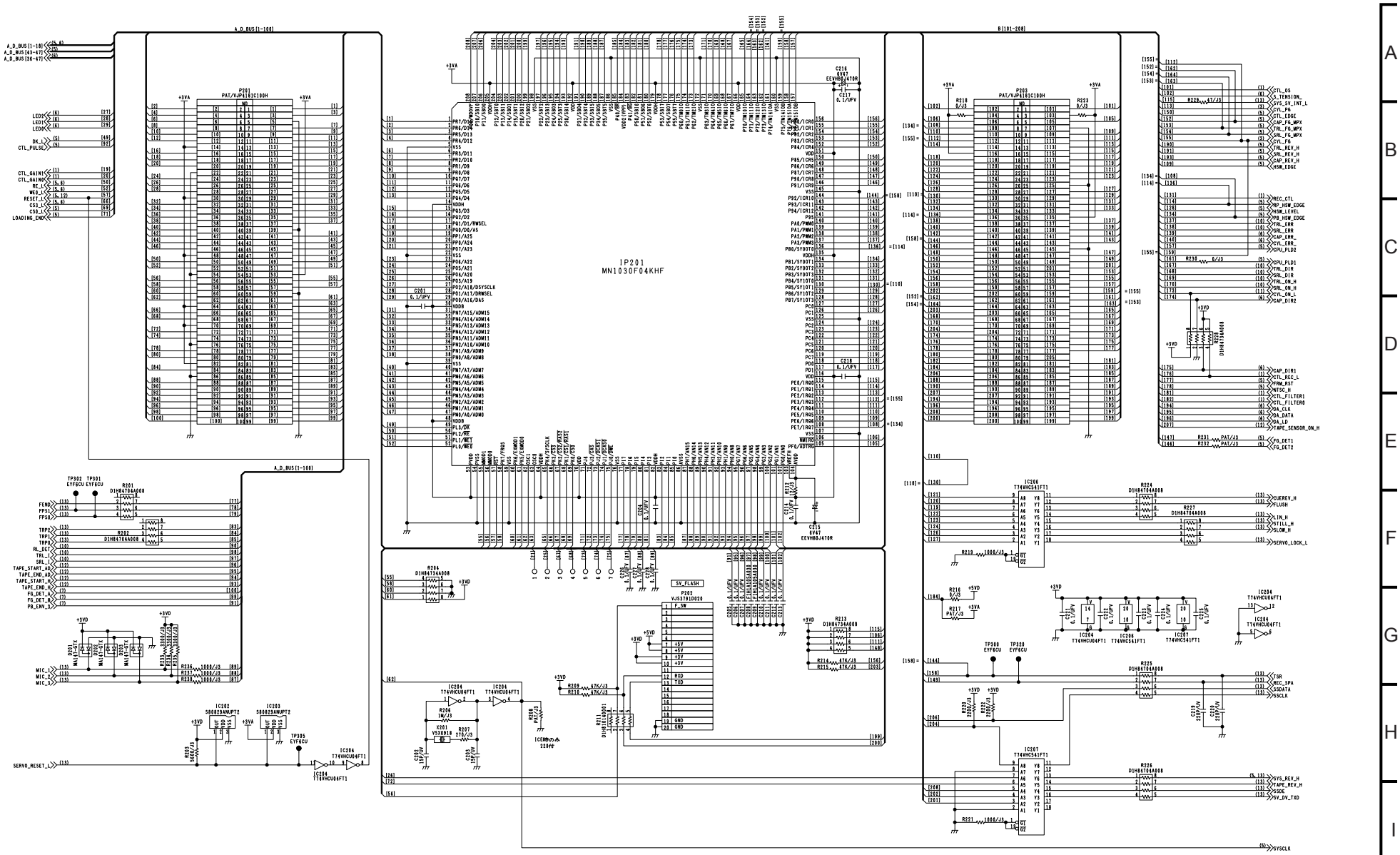
COMPONENT NAME	F7:SERVO (CTL)	01/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP82238B		KR2E01 (1/14)
		SCM094



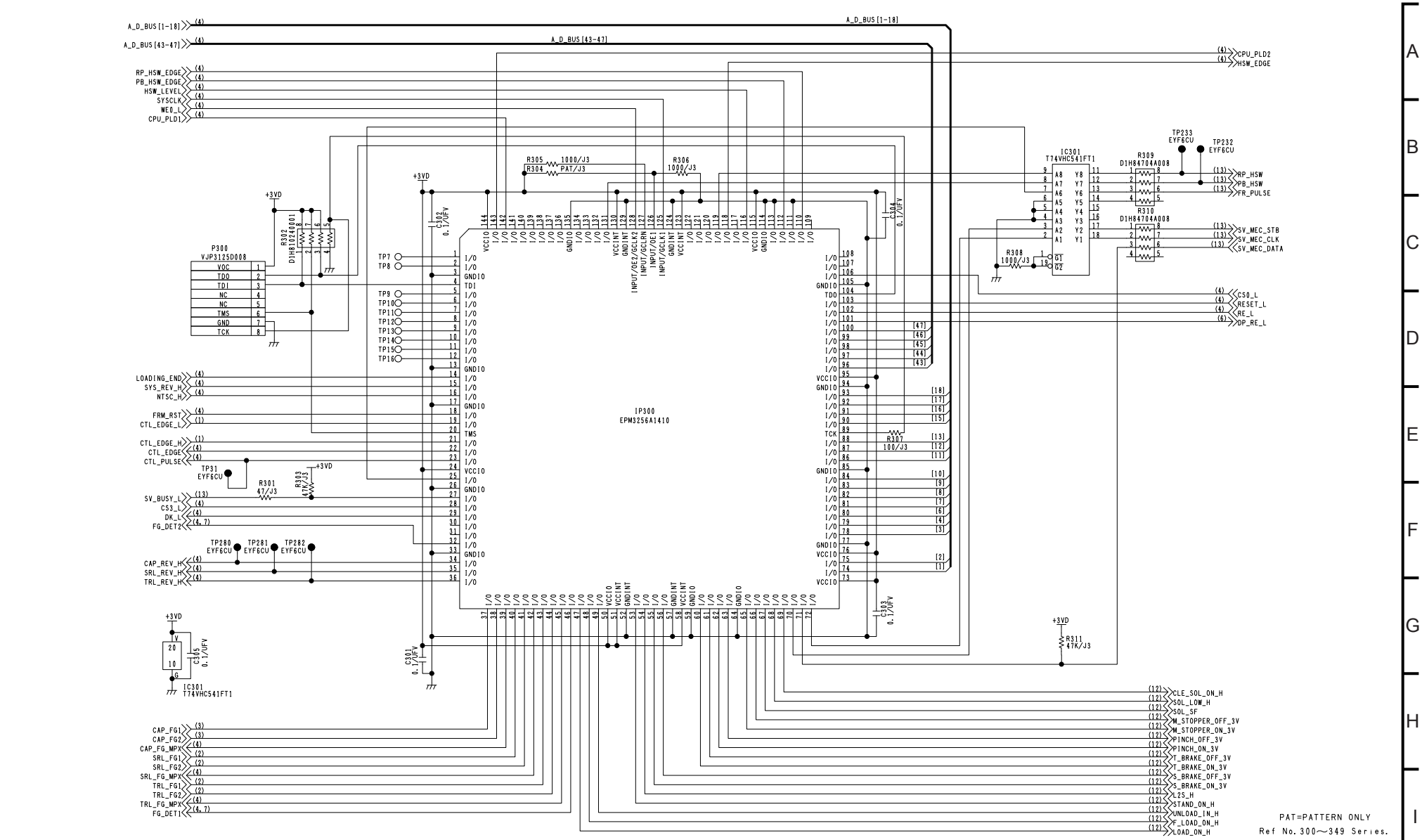
COMPONENT NAME	F7:SERVO (REEL_FG)	02/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP82238B		KR2E01 (2/14)
		SCM095



COMPONENT NAME	F7:SERVO (CA_CY_FG)	03/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82238B	KR2E01 (3/14)	
	SCM096	

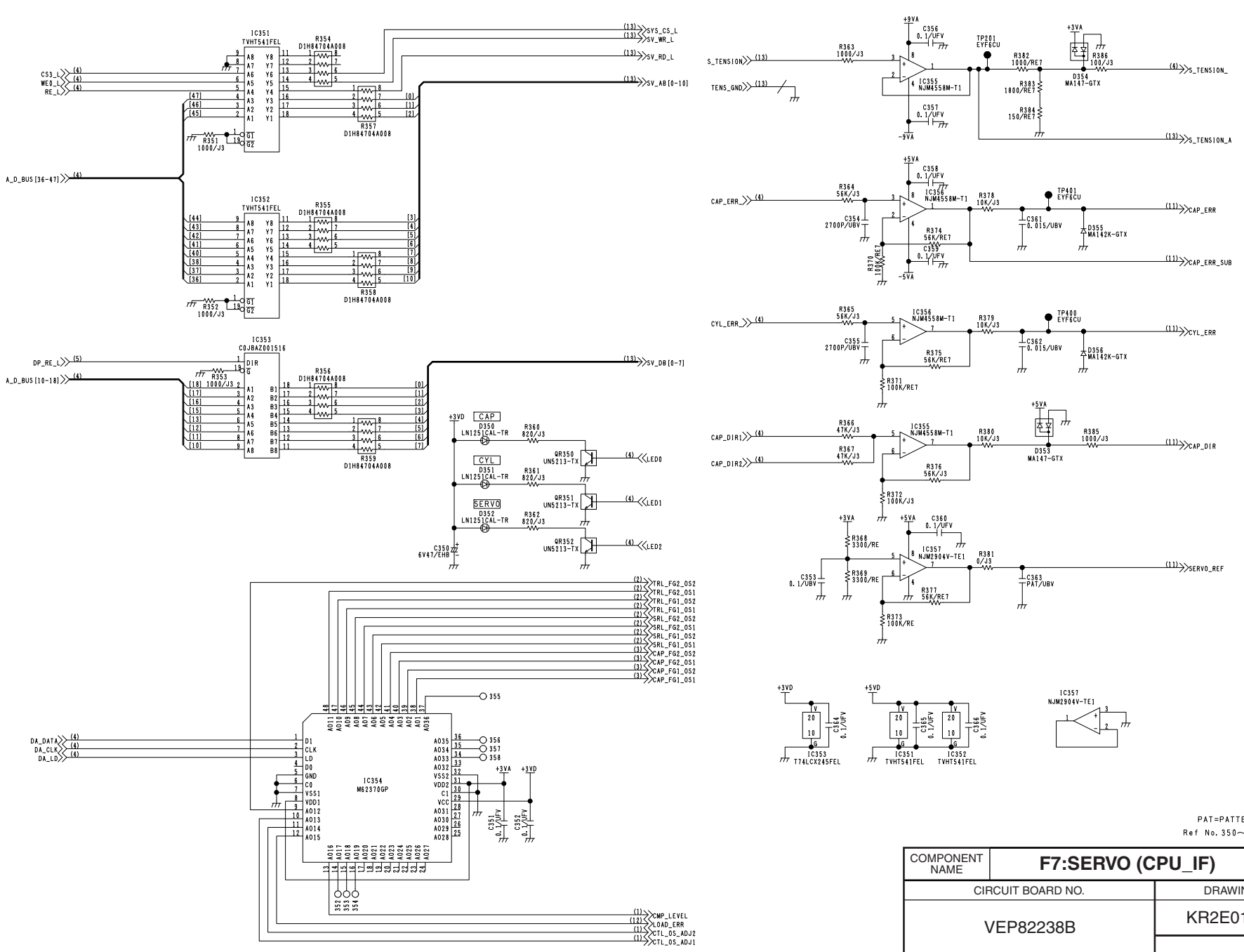


COMPONENT NAME	**F7:SERVO (CPU)**	04/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP82238B		KR2E01 (4/14)
		SCM097



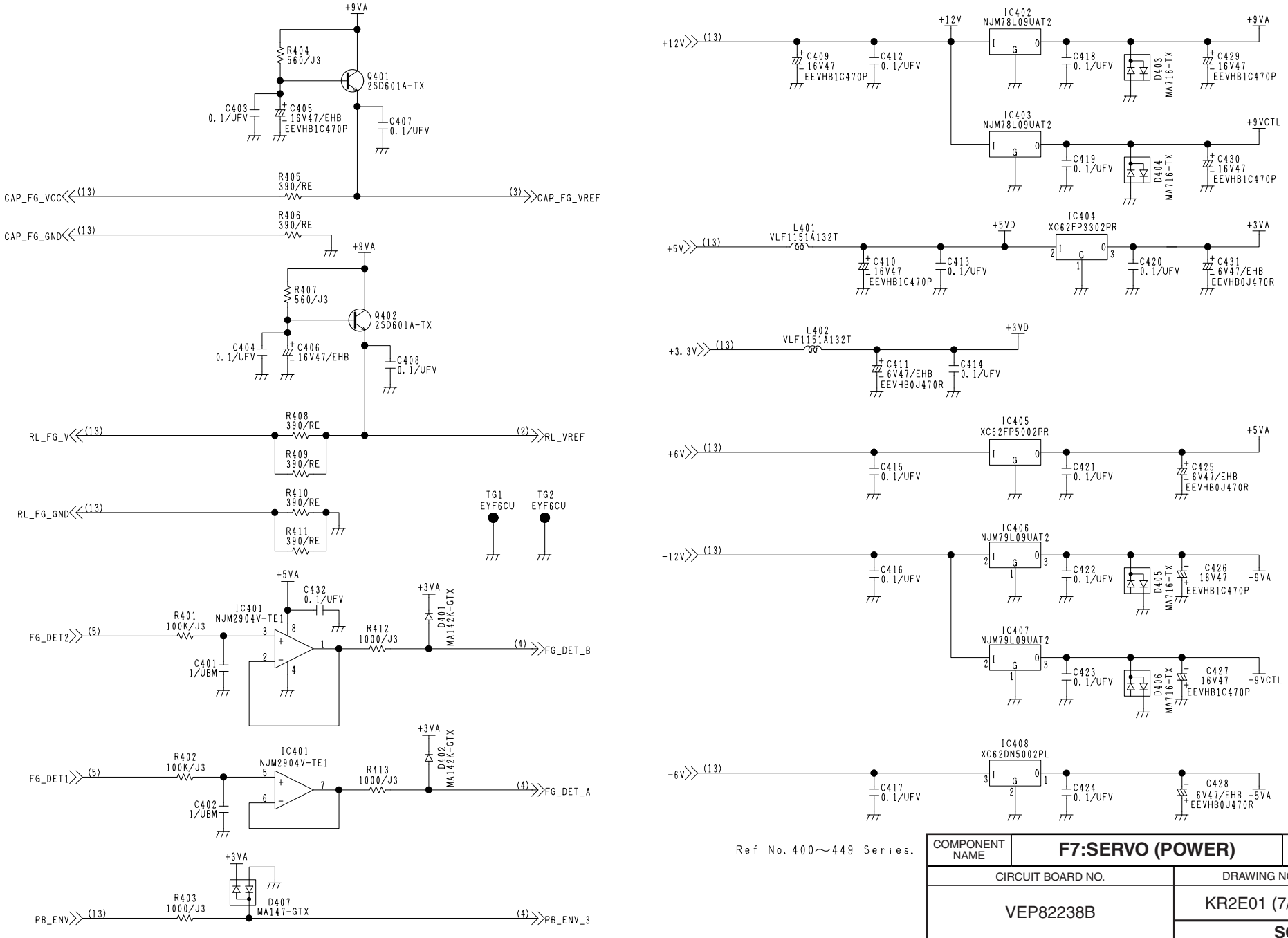
PAT=PATTERN ONLY
Ref No. 300～349 Series.

COMPONENT NAME	F7:SERVO (PLD)	05/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP82238B		KR2E01 (5/14)
		SCM098



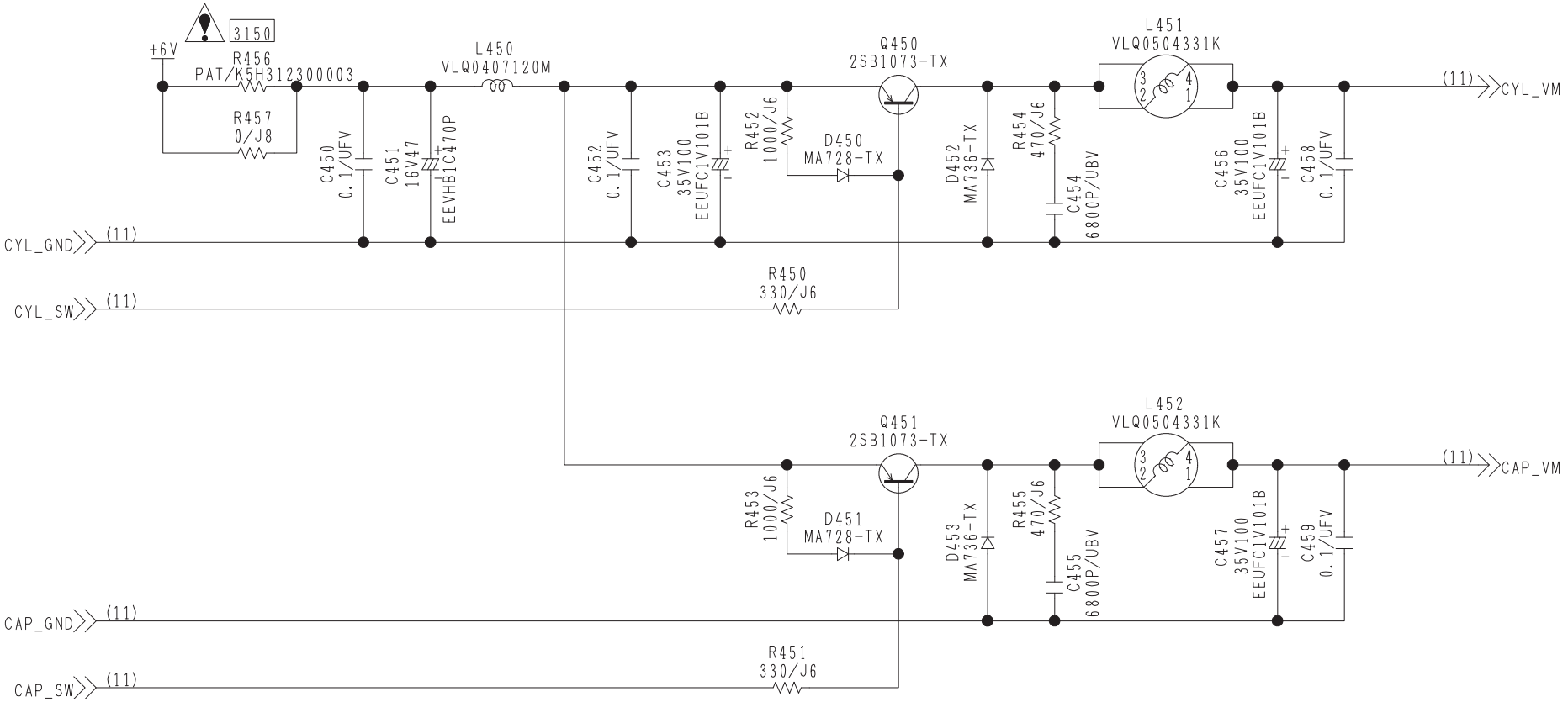
PAT=PATTERN ONLY
Ref No. 350～399 Series.

COMPONENT NAME	F7:SERVO (CPU_IF)	06/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP82238B		KR2E01 (6/14)
		SCM099



Ref No. 400～449 Series.

COMPONENT NAME	F7:SERVO (POWER)	07/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP82238B		KR2E01 (7/14)
		SCM100



PAT=PATTERN ONLY

Ref No. 450 Series.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

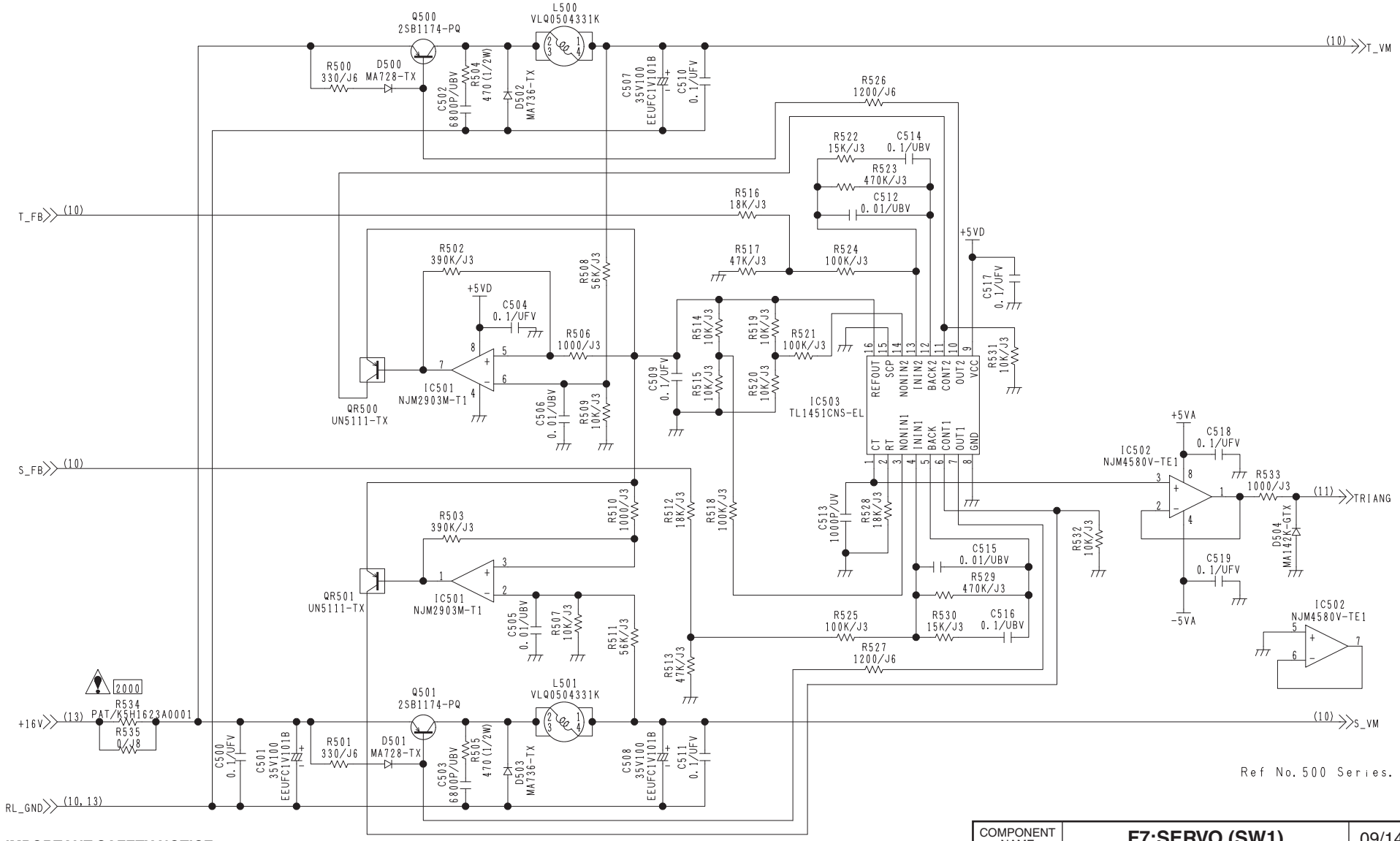
⚠ 警告

⚠ の部品は、安全上重要な部品です。
交換するときは、安全及び性能維持のため、必ず指定の部品をご使用ください。

COMPONENT NAME	F7:SERVO (SW2)	08/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP82238B		KR2E01 (8/14)
		SCM101

A B C D E F G H I J

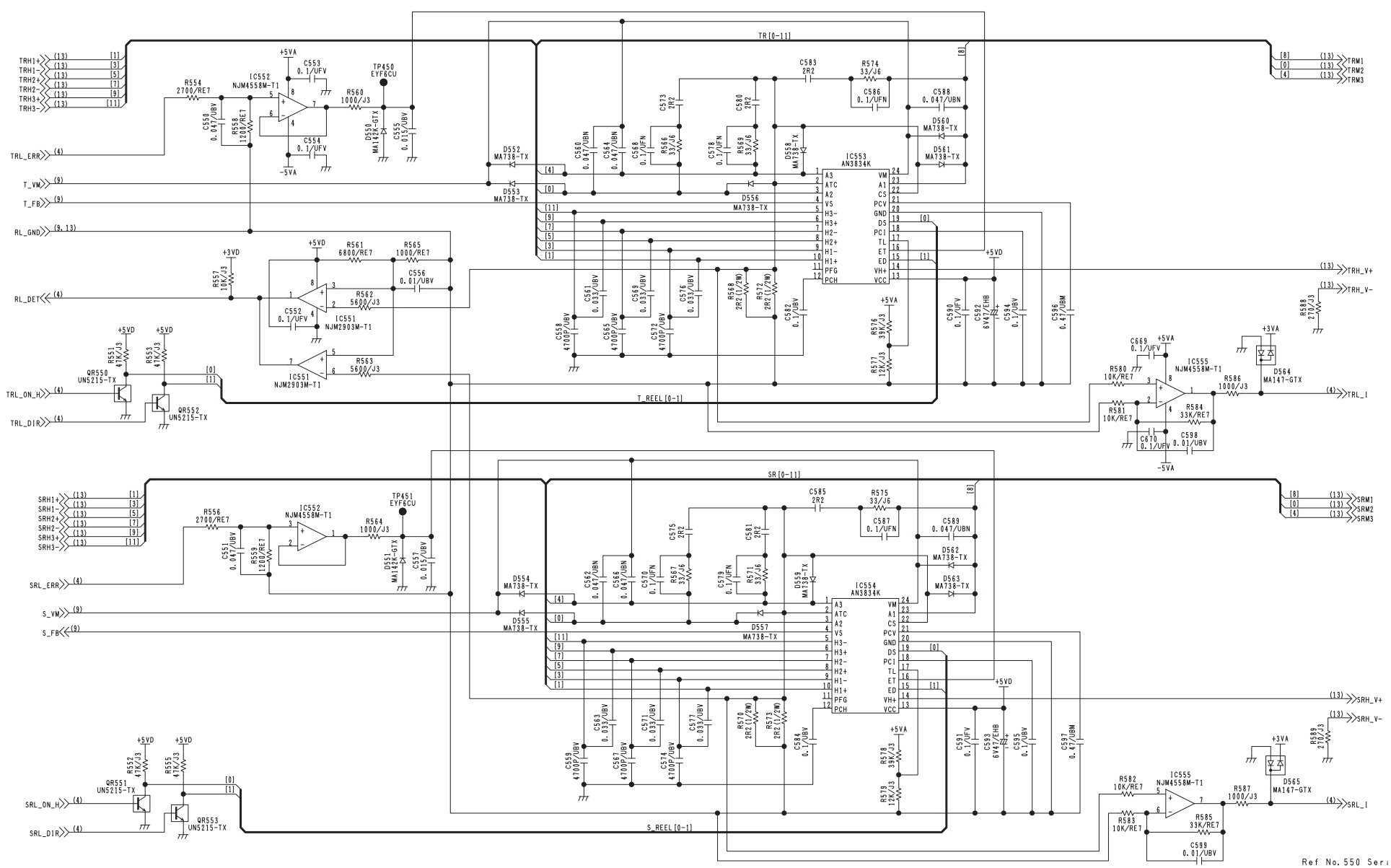
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



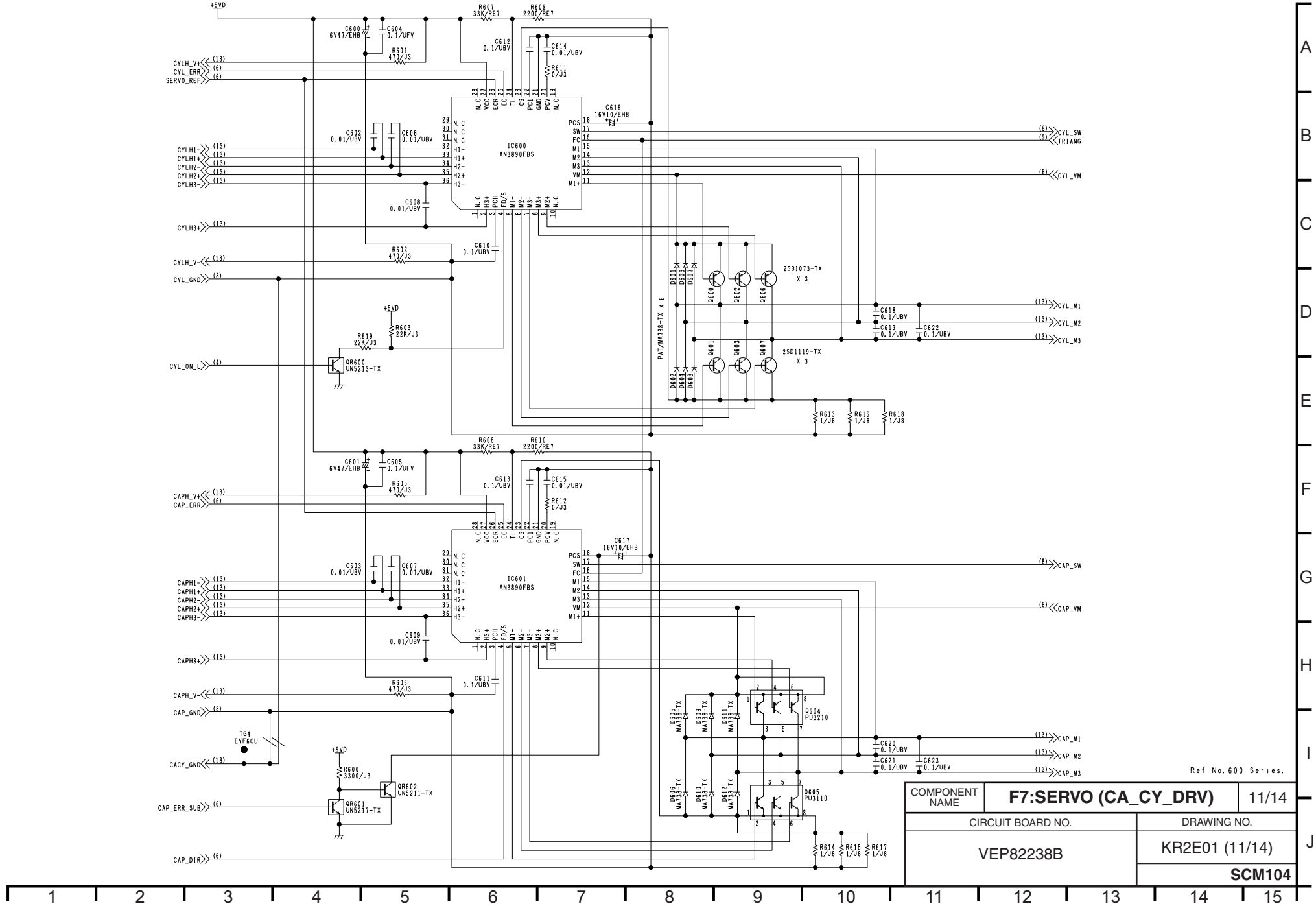
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

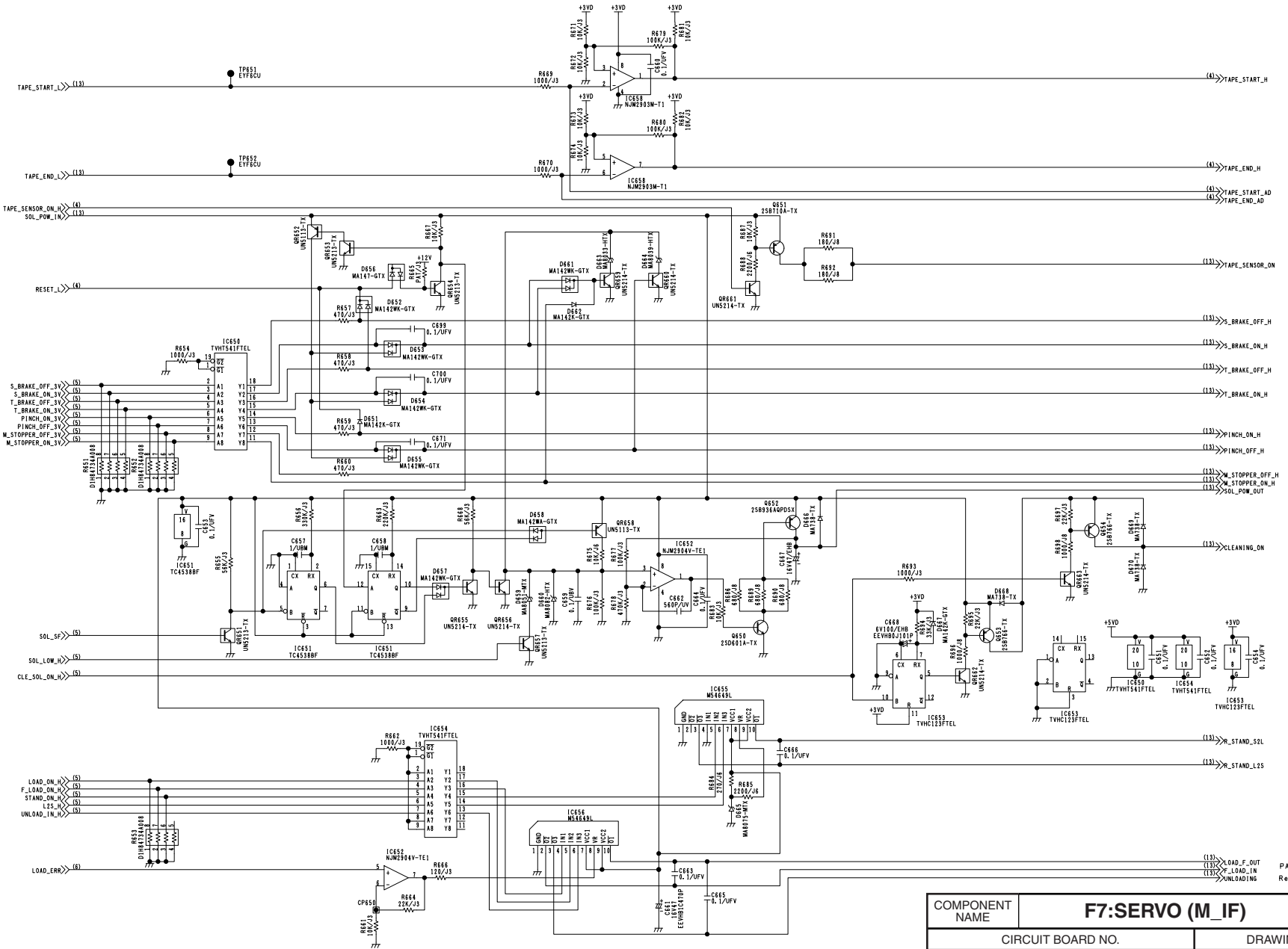
⚠ 警告 ⚠の部品は、安全上重要な部品です。
交換するときは、安全及び性能維持のため、
必ず指定の部品をご使用ください。

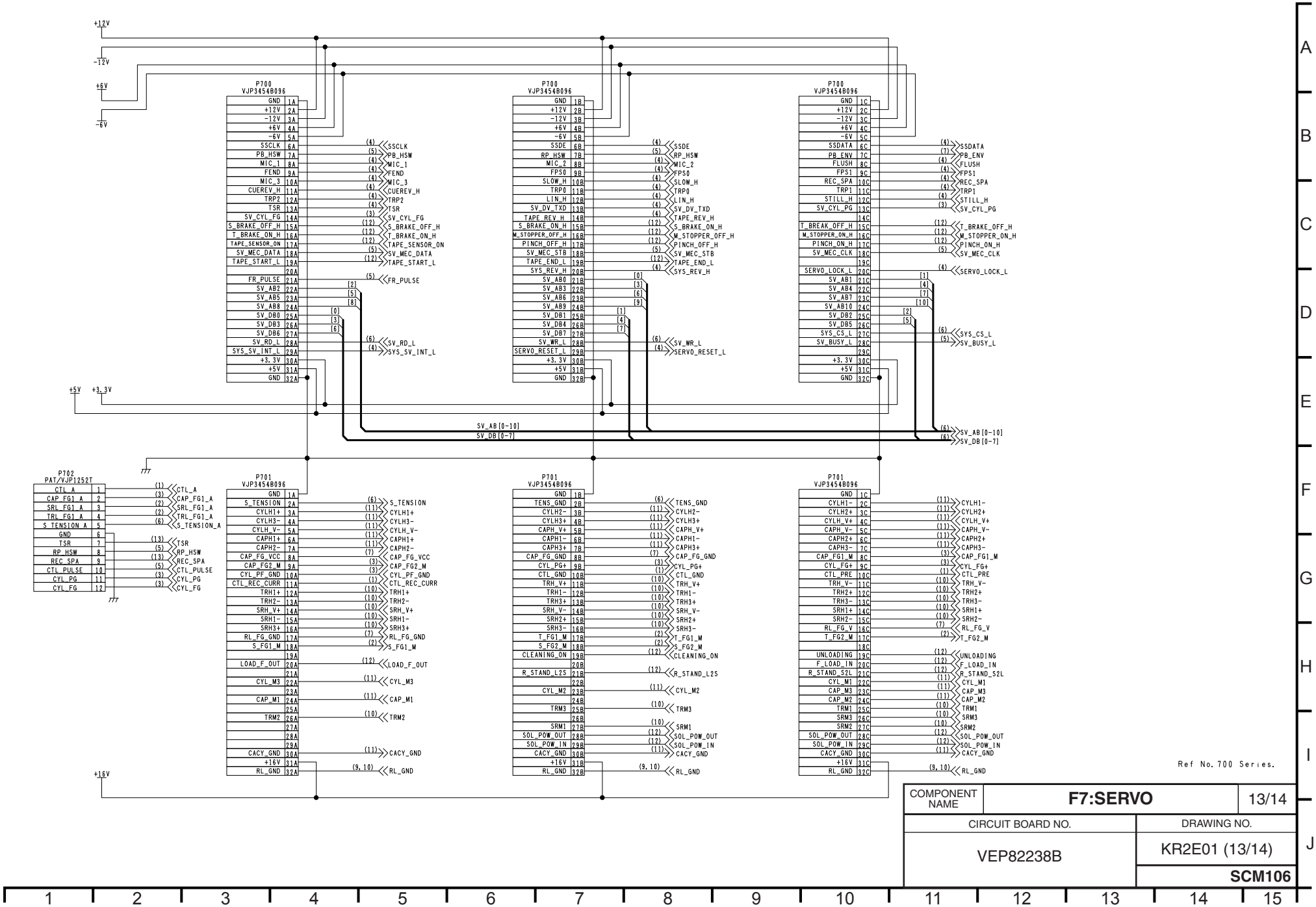
COMPONENT NAME	F7:SERVO (SW1)	09/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP82238B		KR2E01 (9/14)
		SCM102



COMPONENT NAME	F7:SERVO (RL_DRV)	10/14
CIRCUIT BOARD NO.	DRAWING NO.	
VEP82238B	KR2E01(10/14)	
	SCM103	


+5VD
R607 33K/RE7
R609 2200/RE7
C600 6V47/EHB
C604 0.1/UFV
R601 470/J3
C612 0.1/UBV
C614 0.01/UBV
R611 0/J3
CYLH_V+
CYL_ERR
SERVO_REF
IC600 AN3890FBS
C616 16V10/EHB
C602 0.01/UBV
C606 0.01/UBV
CYLH1-
CYLH1+
CYLH2-
CYLH2+
CYLH3-
C608 0.01/UBV
CYLH3+
C610 0.1/UBV
R602 470/J3
CYLH_V-
CYL_GND
CYL_SW
TRIANG
CYL_VM
PAT/MA738-TX X 6
2SB1073-TX X 3
2SD1119-TX X 3
Q600
Q602
Q606
Q601
Q603
Q607
D601
D603
D607
D602
D604
D608
C618 0.1/UBV
C619 0.1/UBV
C622 0.1/UBV
CYL_M1
CYL_M2
CYL_M3
R603 22K/J3
R619 22K/J3
CYL_ON_L
QR600 UN5213-TX
R613 1/J8
R616 1/J8
R618 1/J8
R608 33K/RE7
R610 2200/RE7
C601 6V47/EHB
C605 0.1/UFV
R605 470/J3
C613 0.1/UBV
C615 0.01/UBV
R612 0/J3
CAPH_V+
CAP_ERR
IC601 AN3890FBS
C617 16V10/EHB
C603 0.01/UBV
C607 0.01/UBV
CAPH1-
CAPH1+
CAPH2-
CAPH2+
CAPH3-
C609 0.01/UBV
CAPH3+
C611 0.1/UBV
R606 470/J3
CAPH_V-
CAP_GND
CAP_SW
CAP_VM
Q604 PU3210
Q605 PU3110
D605 MA738-TX
D609 MA738-TX
D611 MA738-TX
D606 MA738-TX
D610 MA738-TX
D612 MA738-TX
C620 0.1/UBV
C621 0.1/UBV
C623 0.1/UBV
CAP_M1
CAP_M2
CAP_M3
TG4 EYF6CU
CACY_GND
+5VD
R600 3300/J3
QR602 UN5211-TX
QR601 UN5217-TX
CAP_ERR_SUB
R614 1/J8
R615 1/J8
R617 1/J8
CAP_DIR
Ref No. 600 Series.
COMPONENT NAME
F7:SERVO (CA_CY_DRV)
11/14
CIRCUIT BOARD NO.
VEP82238B
DRAWING NO.
KR2E01 (11/14)
SCM104


TAPE_START_L
TAPE_END_L
TAPE_SENSOR_ON_H
SOL_POW_IN
RESET_L
S_BRAKE_OFF_3V
S_BRAKE_ON_3V
T_BRAKE_OFF_3V
T_BRAKE_ON_3V
PINCH_ON_3V
PINCH_OFF_3V
M_STOPPER_OFF_3V
M_STOPPER_ON_3V
SOL_SF
SOL_LOW_H
CLE_SOL_ON_H
LOAD_ON_H
F_LOAD_ON_H
STAND_ON_H
L2S_H
UNLOAD_IN_H
LOAD_ERR
TAPE_START_H
TAPE_END_H
TAPE_START_AD
TAPE_END_AD
TAPE_SENSOR_ON
S_BRAKE_OFF_H
S_BRAKE_ON_H
T_BRAKE_OFF_H
T_BRAKE_ON_H
PINCH_ON_H
PINCH_OFF_H
M_STOPPER_OFF_H
M_STOPPER_ON_H
SOL_POW_OUT
CLEANING_ON
R_STAND_S2L
R_STAND_L2S
LOAD_F_OUT
F_LOAD_IN
UNLOADING
IC650 TVHT541FTEL
IC651 TC4538BF
IC652 NJM2904V-TE1
IC653 TVHC123FTEL
IC654 TVHT541FTEL
IC655 MS4649L
IC656 MS4649L
IC658 NJM2903M-T1
Q650 2SD601A-TX
Q651 2SB710A-TX
Q652 2SB938AQPDSX
QR650 UN5113-TX
QR651 UN5213-TX
QR652 UN5113-TX
QR653 UN5213-TX
QR654 UN5113-TX
QR655 UN5214-TX
QR656 UN5214-TX
QR657 UN5213-TX
QR659 UN5214-TX
QR661 UN5214-TX
QR662 UN5214-TX
QR663 UN5214-TX
QR664 2SB716-TX
QR665 2SB716-TX
D650 MA142WA-GTX
D651 MA142K-GTX
D652 MA142WK-GTX
D653 MA142WK-GTX
D654 MA142WK-GTX
D655 MA142WK-GTX
D656 MA147-GTX
D657 MA142WK-GTX
D658 MA142WA-GTX
D659 MA8082-HTX
D660 MA8082-HTX
D661 MA142WK-GTX
D662 MA142K-GTX
D663 MA8082-HTX
D664 MA8039-HTX
D665 MA8039-HTX
D666 MA715-TX
D667 MA715-TX
D668 MA738-TX
D669 MA715-TX
D670 MA715-TX
D671 MA8075-MTX
D672 MA8075-MTX
D673 MA8075-MTX
D674 MA8075-MTX
D675 MA8075-MTX
D676 MA8075-MTX
D677 MA8075-MTX
D678 MA8075-MTX
D679 MA8075-MTX
D680 MA8075-MTX
D681 MA8075-MTX
D682 MA8075-MTX
D683 MA8075-MTX
D684 MA8075-MTX
D685 MA8075-MTX
D686 MA8075-MTX
D687 MA8075-MTX
D688 MA8075-MTX
D689 MA8075-MTX
D690 MA8075-MTX

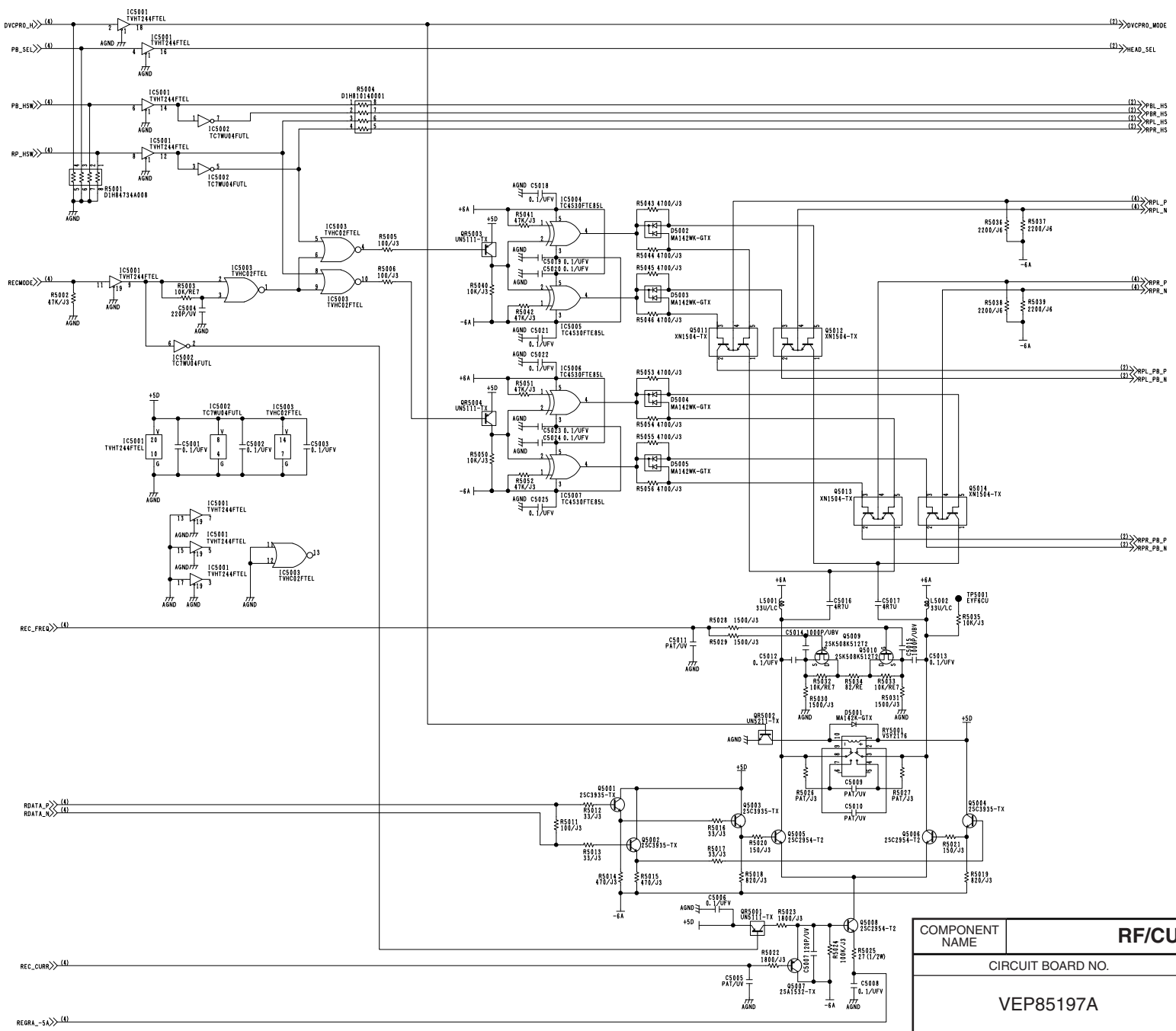

+12V
-12V
+6V
-6V
+5V
+3.3V
+16V
P700
VJP3454B096
GND 1A
+12V 2A
-12V 3A
+6V 4A
-6V 5A
SSCLK 6A
PB_HSW 7A
MIC_1 8A
FEND 9A
MIC_3 10A
CUEREV_H 11A
TRP2 12A
TSR 13A
SV_CYL_FG 14A
S_BRAKE_OFF_H 15A
T_BRAKE_ON_H 16A
TAPE_SENSOR_ON 17A
SV_MEC_DATA 18A
TAPE_START_L 19A
FR_PULSE 21A
SV_AB2 22A
SV_AB5 23A
SV_AB8 24A
SV_DB0 25A
SV_DB3 26A
SV_DB6 27A
SV_RD_L 28A
SYS_SV_INT_L 29A
+3.3V 30A
+5V 31A
GND 32A
SSCLK
PB_HSW
MIC_1
FEND
MIC_3
CUEREV_H
TRP2
TSR
SV_CYL_FG
S_BRAKE_OFF_H
T_BRAKE_ON_H
TAPE_SENSOR_ON
SV_MEC_DATA
TAPE_START_L
FR_PULSE
SV_RD_L
SYS_SV_INT_L
GND 1B
+12V 2B
-12V 3B
+6V 4B
-6V 5B
SSDE 6B
RP_HSW 7B
MIC_2 8B
FPS0 9B
SLOW_H 10B
TRP0 11B
LIN_H 12B
SV_DV_TXD 13B
TAPE_REV_H 14B
S_BRAKE_ON_H 15B
M_STOPPER_OFF_H 16B
PINCH_OFF_H 17B
SV_MEC_STB 18B
TAPE_END_L 19B
SYS_REV_H 20B
SV_AB0 21B
SV_AB3 22B
SV_AB6 23B
SV_AB9 24B
SV_DB1 25B
SV_DB4 26B
SV_DB7 27B
SV_WR_L 28B
SERVO_RESET_L 29B
+3.3V 30B
+5V 31B
GND 32B
SSDE
RP_HSW
MIC_2
FPS0
SLOW_H
TRP0
LIN_H
SV_DV_TXD
TAPE_REV_H
S_BRAKE_ON_H
M_STOPPER_OFF_H
PINCH_OFF_H
SV_MEC_STB
TAPE_END_L
SYS_REV_H
SV_WR_L
SERVO_RESET_L
GND 1C
+12V 2C
-12V 3C
+6V 4C
-6V 5C
SSDATA 6C
PB_ENV 7C
FLUSH 8C
FPS1 9C
REC_SPA 10C
TRP1 11C
STILL_H 12C
SV_CYL_PG 13C
14C
T_BREAK_OFF_H 15C
M_STOPPER_ON_H 16C
PINCH_ON_H 17C
SV_MEC_CLK 18C
19C
SERVO_LOCK_L 20C
SV_AB1 21C
SV_AB4 22C
SV_AB7 23C
SV_AB10 24C
SV_DB2 25C
SV_DB5 26C
SYS_CS_L 27C
SV_BUSY_L 28C
29C
+3.3V 30C
+5V 31C
GND 32C
SSDATA
PB_ENV
FLUSH
FPS1
REC_SPA
TRP1
STILL_H
SV_CYL_PG
T_BRAKE_OFF_H
M_STOPPER_ON_H
PINCH_ON_H
SV_MEC_CLK
SERVO_LOCK_L
SYS_CS_L
SV_BUSY_L
SV_AB[0-10]
SV_DB[0-7]
P702
PAT/VJP1252T
CTL_A 1
CAP_FG1_A 2
SRL_FG1_A 3
TRL_FG1_A 4
S_TENSION_A 5
GND 6
TSR 7
RP_HSW 8
REC_SPA 9
CTL_PULSE 10
CYL_PG 11
CYL_FG 12
CTL_A
CAP_FG1_A
SRL_FG1_A
TRL_FG1_A
S_TENSION_A
TSR
RP_HSW
REC_SPA
CTL_PULSE
CYL_PG
CYL_FG
P701
VJP3454B096
GND 1A
S_TENSION 2A
CYLH1+ 3A
CYLH3- 4A
CYLH_V- 5A
CAPH1+ 6A
CAPH2- 7A
CAP_FG_VCC 8A
CAP_FG2_M 9A
CYL_PF_GND 10A
CTL_REC_CURR 11A
TRH1+ 12A
TRH2- 13A
SRH_V+ 14A
SRH1- 15A
SRH3+ 16A
RL_FG_GND 17A
S_FG1_M 18A
19A
LOAD_F_OUT 20A
21A
CYL_M3 22A
23A
CAP_M1 24A
25A
TRM2 26A
27A
28A
29A
CACY_GND 30A
+16V 31A
RL_GND 32A
S_TENSION
CYLH1+
CYLH3-
CYLH_V-
CAPH1+
CAPH2-
CAP_FG_VCC
CAP_FG2_M
CYL_PF_GND
CTL_REC_CURR
TRH1+
TRH2-
SRH_V+
SRH1-
SRH3+
RL_FG_GND
S_FG1_M
LOAD_F_OUT
CYL_M3
CAP_M1
TRM2
CACY_GND
RL_GND
GND 1B
TENS_GND 2B
CYLH2- 3B
CYLH3+ 4B
CAPH_V+ 5B
CAPH1- 6B
CAPH3+ 7B
CAP_FG_GND 8B
CYL_PG+ 9B
CTL_GND 10B
TRH_V+ 11B
TRH1- 12B
TRH3+ 13B
SRH_V- 14B
SRH2+ 15B
SRH3- 16B
T_FG1_M 17B
S_FG2_M 18B
CLEANING_ON 19B
20B
R_STAND_L2S 21B
22B
CYL_M2 23B
24B
TRM3 25B
26B
SRM1 27B
SOL_POW_OUT 28B
SOL_POW_IN 29B
CACY_GND 30B
+16V 31B
RL_GND 32B
TENS_GND
CYLH2-
CYLH3+
CAPH_V+
CAPH1-
CAPH3+
CAP_FG_GND
CYL_PG+
CTL_GND
TRH_V+
TRH1-
TRH3+
SRH_V-
SRH2+
SRH3-
T_FG1_M
S_FG2_M
CLEANING_ON
R_STAND_L2S
CYL_M2
TRM3
SRM1
SOL_POW_OUT
SOL_POW_IN
CACY_GND
RL_GND
GND 1C
CYLH1- 2C
CYLH2+ 3C
CYLH_V+ 4C
CAPH_V- 5C
CAPH2+ 6C
CAPH3- 7C
CAP_FG1_M 8C
CYL_FG+ 9C
CTL_PRE 10C
TRH_V- 11C
TRH2+ 12C
TRH3- 13C
SRH1+ 14C
SRH2- 15C
RL_FG_V 16C
T_FG2_M 17C
18C
UNLOADING 19C
F_LOAD_IN 20C
R_STAND_S2L 21C
CYL_M1 22C
CAP_M3 23C
CAP_M2 24C
TRM1 25C
SRM3 26C
SRM2 27C
SOL_POW_OUT 28C
SOL_POW_IN 29C
CACY_GND 30C
+16V 31C
RL_GND 32C
CYLH1-
CYLH2+
CYLH_V+
CAPH_V-
CAPH2+
CAPH3-
CAP_FG1_M
CYL_FG+
CTL_PRE
TRH_V-
TRH2+
TRH3-
SRH1+
SRH2-
RL_FG_V
T_FG2_M
UNLOADING
F_LOAD_IN
R_STAND_S2L
CYL_M1
CAP_M3
CAP_M2
TRM1
SRM3
SRM2
SOL_POW_OUT
SOL_POW_IN
CACY_GND
RL_GND
Ref No. 700 Series.
COMPONENT NAME
F7:SERVO
13/14
CIRCUIT BOARD NO.
VEP82238B
DRAWING NO.
KR2E01 (13/14)
SCM106

IP201 MN1030F04KHF			IP300 EPM3256A1410		
VSI3565A			VSI3567		

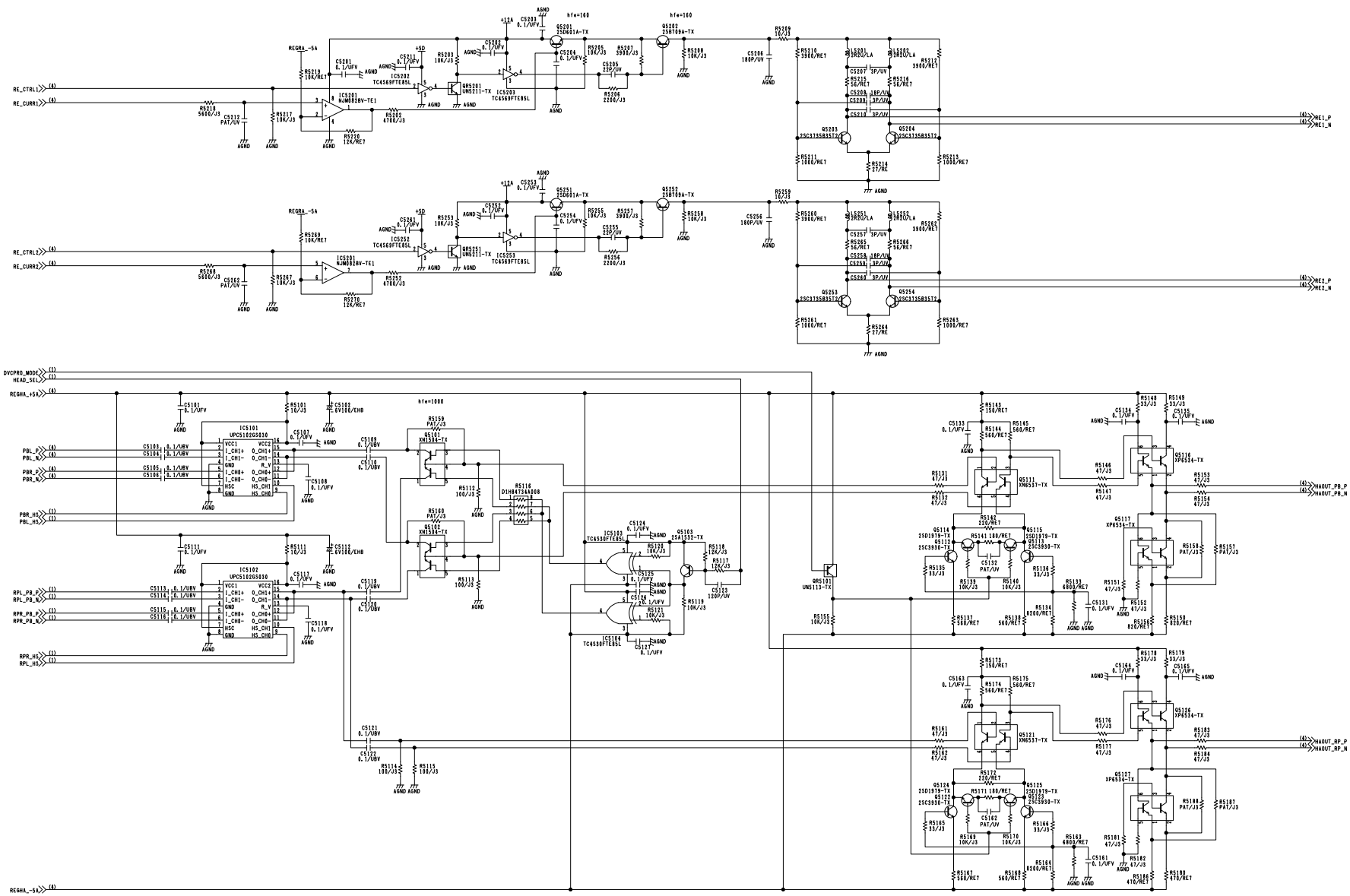
COMPONENT NAME	F7:SERVO (SOFT)	14/14
CIRCUIT BOARD NO.		DRAWING NO.
VEP82238B		KR2E01 (14/14)
		SCM107

A B C D E F G H I J

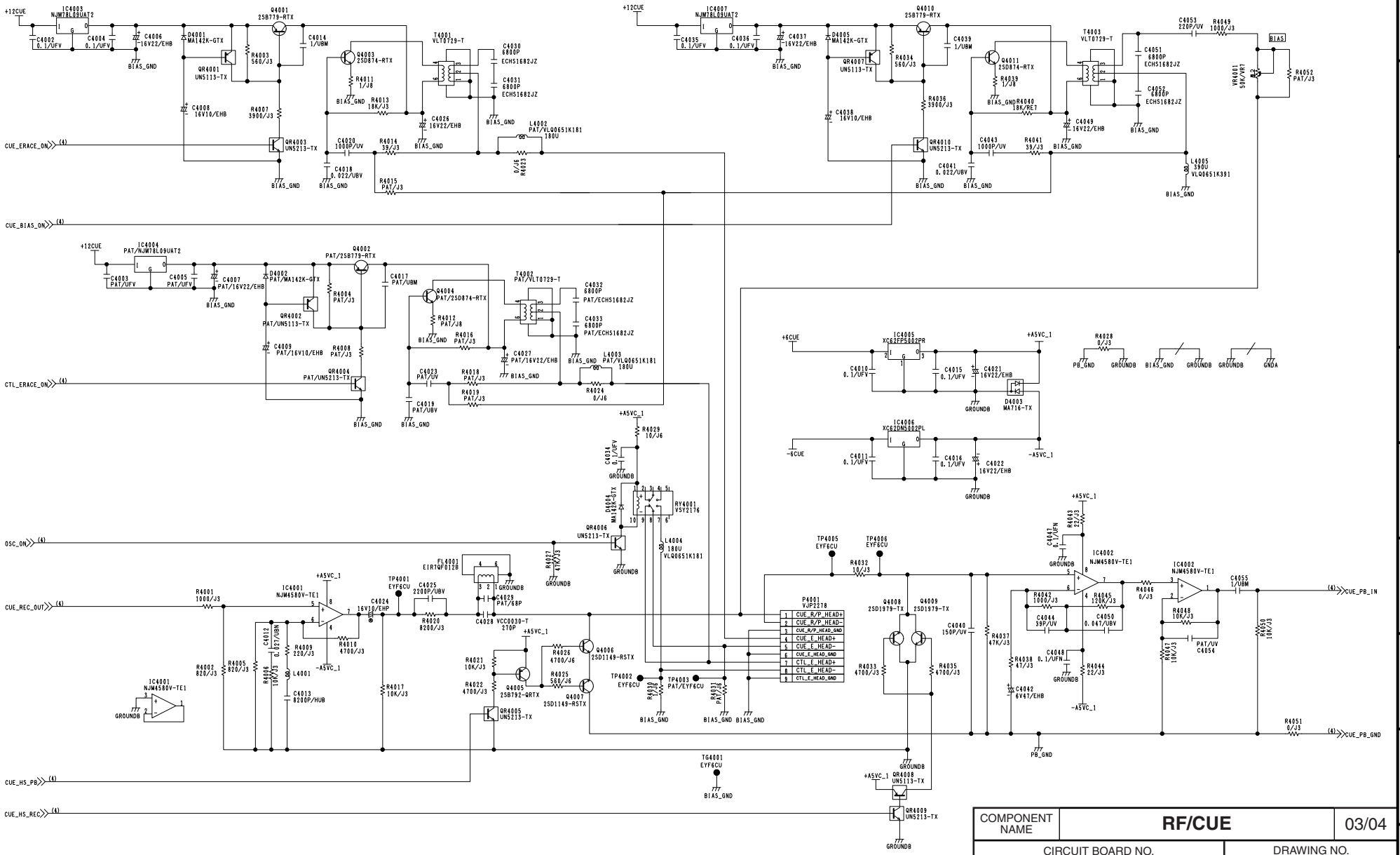
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

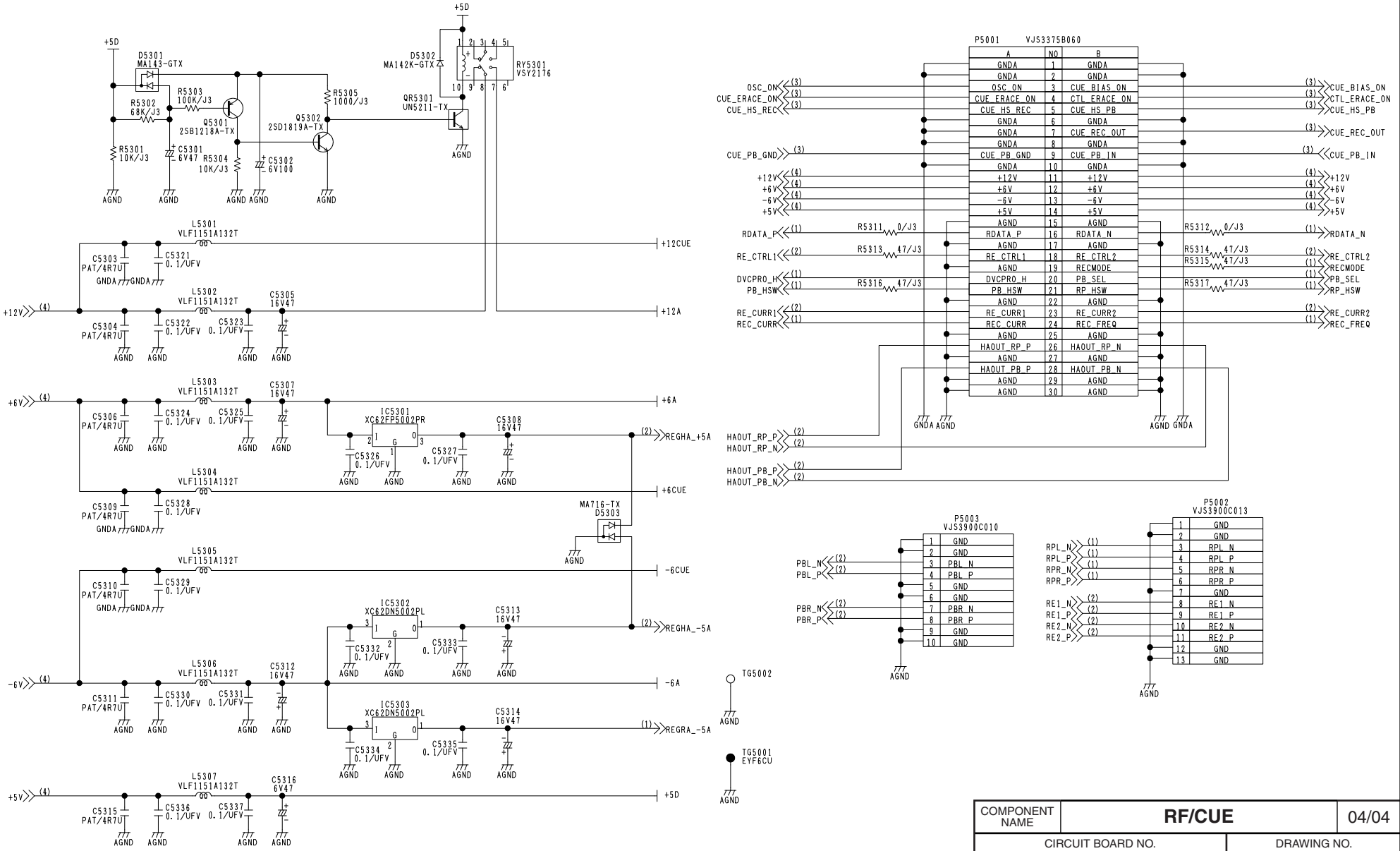


COMPONENT NAME	**RF/CUE**	01/04
CIRCUIT BOARD NO.		DRAWING NO.
VEP85197A		KR5586 (1/4)
		SCM108



COMPONENT NAME	RF/CUE	02/04
CIRCUIT BOARD NO.		DRAWING NO.
VEP85197A		KR5586 (2/4)
		SCM109

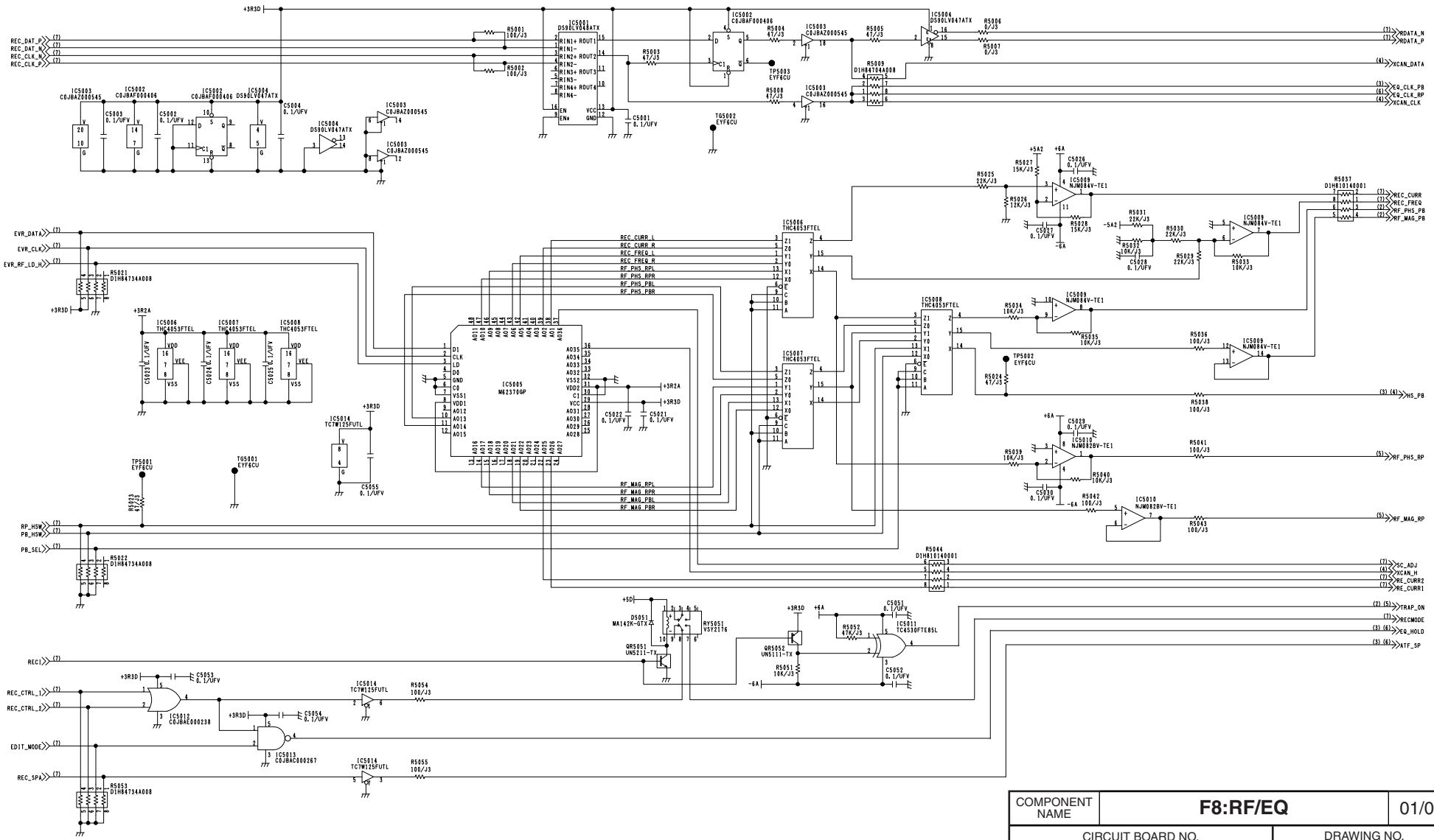

+12CUE
IC4003 NJM78L09UAT2
C4000 0.1/UFV
C4004 0.1/UFV
C4006 16V22/EHB
BIAS_GND
D4001 MA142K-GTX
Q4001 2SB779-RTX
C4014 1/UBM
QR4001 UN5113-TX
R4003 560/J3
C4008 16V10/EHB
R4007 3900/J3
QR4003 UN5213-TX
T4001 VLT0729-T
Q4003 2SD874-RTX
R4011 1/J8
R4013 18K/J3
C4030 680P ECH51682JZ
C4031 680P ECH51682JZ
C4026 16V22/EHB
L4002 PAT/VLQ0651K181 180U
C4020 1000P/UV
R4014 39/J3
C4018 0.022/UBV
R4015 PAT/J3
0/J6 R4023
CUE_ERACE_ON (4)
CUE_BIAS_ON (4)
IC4007 NJM78L09UAT2
C4035 0.1/UFV
C4036 0.1/UFV
C4037 16V22/EHB
D4005 MA142K-GTX
Q4010 2SB779-RTX
C4039 1/UBM
QR4007 UN5113-TX
R4034 560/J3
C4038 16V10/EHB
R4036 3900/J3
Q4011 2SD874-RTX
R4039 1/J8
R4040 18K/RE7
T4003 VLT0729-T
C4053 220P/UV
R4049 1000/J3
C4051 680P ECH51682JZ
C4052 680P ECH51682JZ
BIAS
VR4001 50K/VRT
R4052 PAT/J3
C4049 16V22/EHB
C4043 1000P/UV
R4041 39/J3
QR4010 UN5213-TX
C4041 0.022/UBV
L4005 390U VLQ0651K391
IC4004 PAT/NJM78L09UAT2
C4003 PAT/UFV
C4005 PAT/UFV
C4007 PAT/16V22/EHB
Q4002 PAT/2SB779-RTX
D4002 PAT/MA142K-GTX
C4017 PAT/UBM
R4004 PAT/J3
QR4002 PAT/UN5113-TX
T4002 PAT/VLT0729-T
Q4004 PAT/2SD874-RTX
C4032 680P PAT/ECH51682JZ
C4033 680P PAT/ECH51682JZ
R4012 PAT/J8
R4016 PAT/J3
C4009 PAT/16V10/EHB
R4008 PAT/J3
C4027 PAT/16V22/EHB
L4003 PAT/VLQ0651K181 180U
QR4004 PAT/UN5213-TX
C4023 PAT/UV
R4018 PAT/J3
R4019 PAT/J3
R4024 0/J6
C4019 PAT/UBV
CTL_ERACE_ON (4)
+6CUE
IC4005 XC62FP5002PR
C4010 0.1/UFV
C4015 0.1/UFV
C4021 16V22/EHB
D4003 MA716-TX
R4028 0/J3
PB_GND
GROUNDB
BIAS_GND
GNDA
-6CUE
IC4006 XC62DN5002PL
C4011 0.1/UFV
C4016 0.1/UFV
C4022 16V22/EHB
+A5VC_1
-A5VC_1
R4029 10/J6
C4034 0.1/UFV
D4004 MA142K-GTX
RY4001 V5Y2176
QR4006 UN5213-TX
L4004 180U VLQ0651K181
OSC_ON (4)
R4027 47K/J3
FL4001 EIR1QF0126
TP4005 EYF6CU
TP4006 EYF6CU
R4032 10/J3
P4001 VJP2278
CUE_R/P_HEAD+
CUE_R/P_HEAD-
CUE_R/P_HEAD_GND
CUE_E_HEAD+
CUE_E_HEAD-
CUE_E_HEAD_GND
CTL_E_HEAD+
CTL_E_HEAD-
CTL_E_HEAD_GND
IC4001 NJM4580V-TE1
R4001 1000/J3
C4024 16V10/EHP
TP4001 EYF6CU
C4025 2200P/UBV
C4028 VCC0030-T 270P
C4029 PAT/68P
R4020 8200/J3
R4017 10K/J3
R4002 820/J3
R4005 820/J3
C4012 0.027/UBV
R4006 10K/J3
R4009 220/J3
L4001
C4013 8200P/HUB
R4010 4700/J3
R4021 10K/J3
R4022 4700/J3
R4026 4700/J6
R4025 560/J6
Q4005 2SB792-QRTX
Q4007 2SD1149-RSTX
Q4006 2SD1149-RSTX
QR4005 UN5213-TX
TP4002 EYF6CU
TP4003 PAT/EYF6CU
R4030 1/J8
R4031 PAT/J3
Q4008 2SD1979-TX
Q4009 2SD1979-TX
C4040 150P/UV
R4037 47K/J3
R4033 4700/J3
R4035 4700/J3
R4038 47/J3
C4042 6V47/EHB
C4047 0.1/UFN
R4043 22/J3
IC4002 NJM4580V-TE1
R4042 1000/J3
R4045 120K/J3
C4044 39P/UV
C4056 0.047/UBV
C4048 0.1/UFN
R4044 22/J3
R4046 0/J3
R4048 10K/J3
R4047 10K/J3
PAT/UV C4054
C4055 1/UBM
R4050 10K/J3
R4051 0/J3
CUE_PB_IN (4)
CUE_PB_GND (4)
CUE_REC_OUT (4)
CUE_HS_PB (4)
CUE_HS_REC (4)
TG4001 EYF6CU
QR4008 UN5113-TX
QR4009 UN5213-TX
COMPONENT NAME
RF/CUE
03/04
CIRCUIT BOARD NO.
VEP85197A
DRAWING NO.
KR5586 (3/4)
SCM110



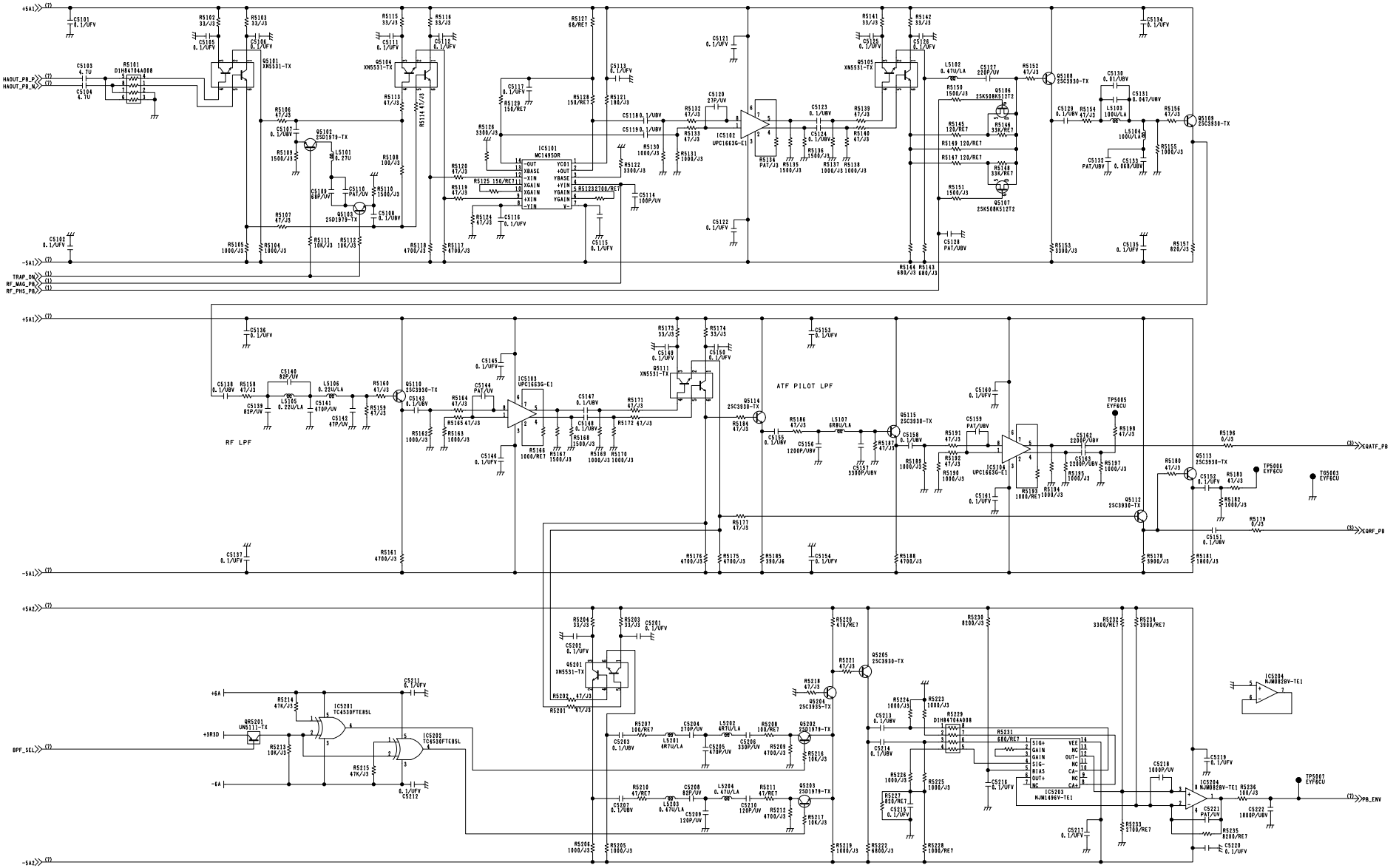
COMPONENT NAME	**RF/CUE**	04/04
CIRCUIT BOARD NO.		DRAWING NO.
VEP85197A		KR5586 (4/4)
		SCM111

A B C D E F G H I J

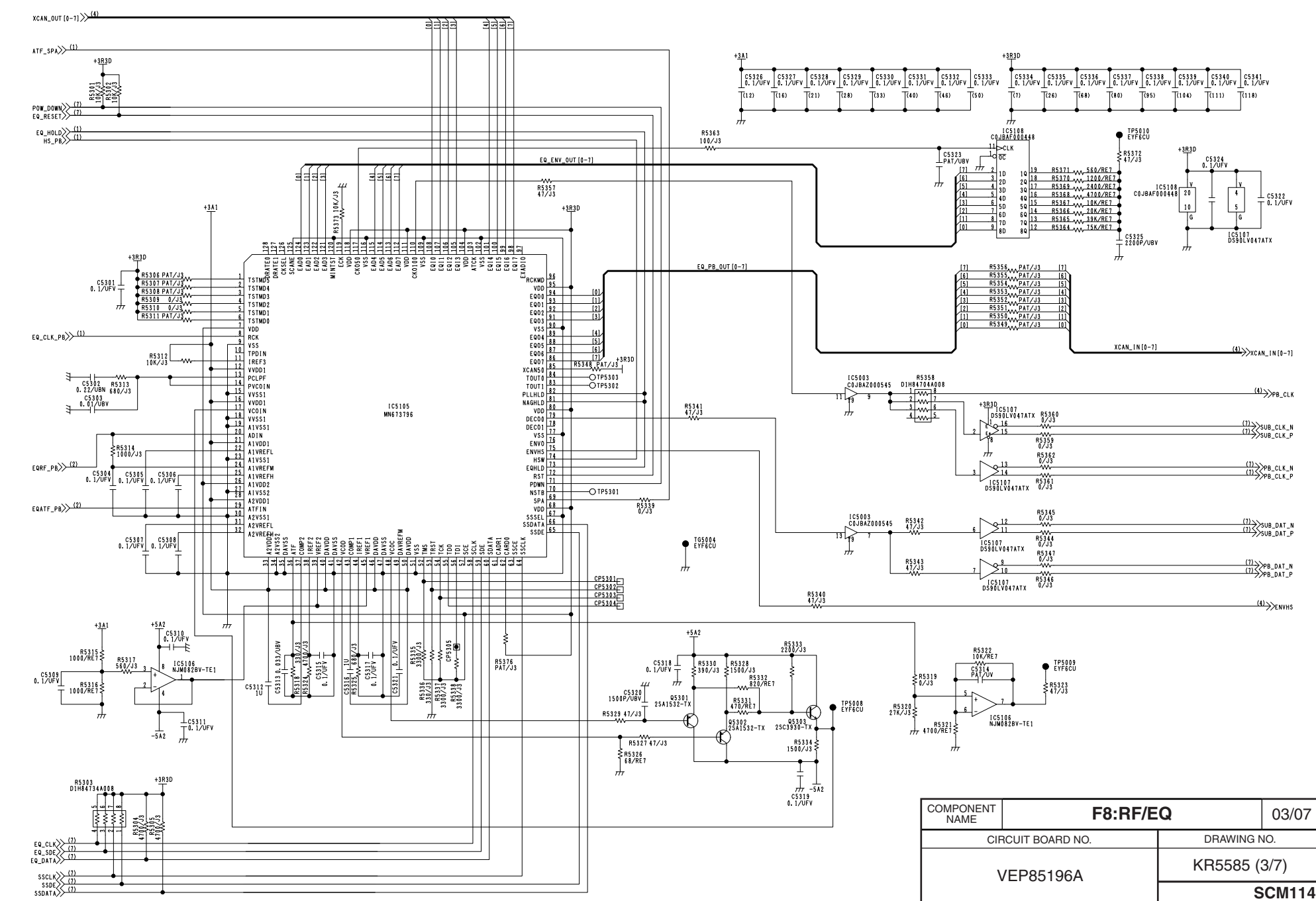
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



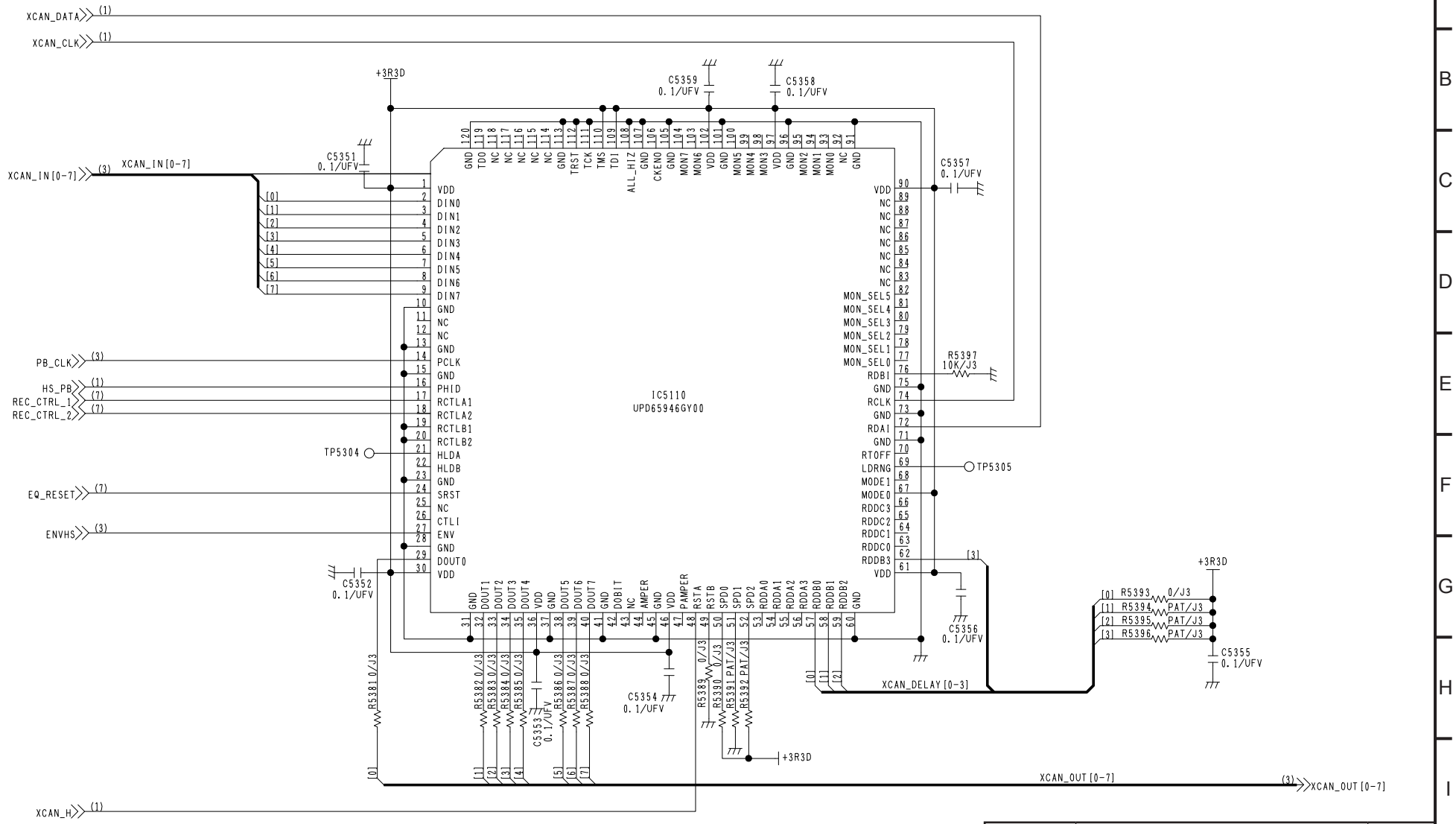
COMPONENT NAME	**F8:RF/EQ**	01/07
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85196A	KR5585 (1/7)	
	SCM112	



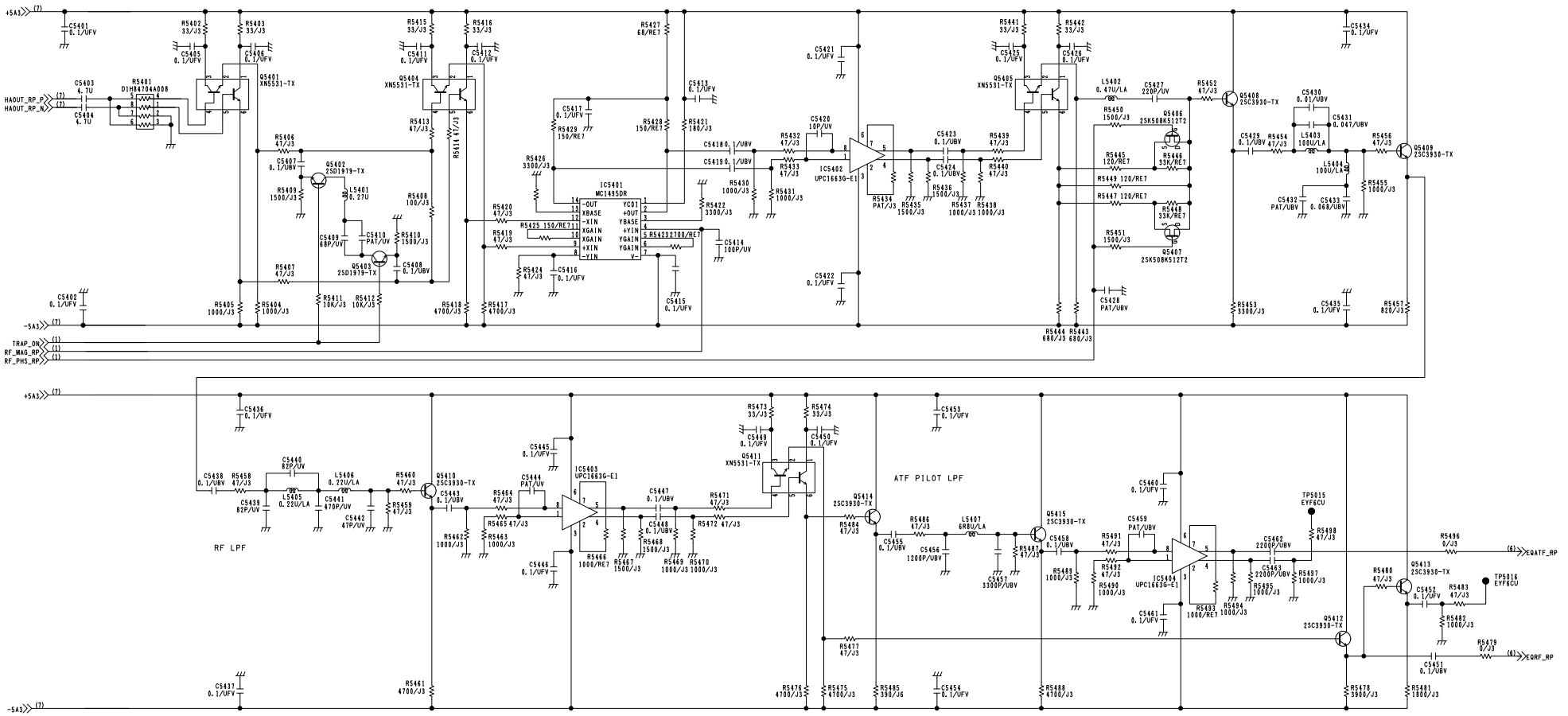
COMPONENT NAME	F8:RF/EQ	02/07
CIRCUIT BOARD NO.		DRAWING NO.
VEP85196A		KR5585 (2/7)
		SCM113



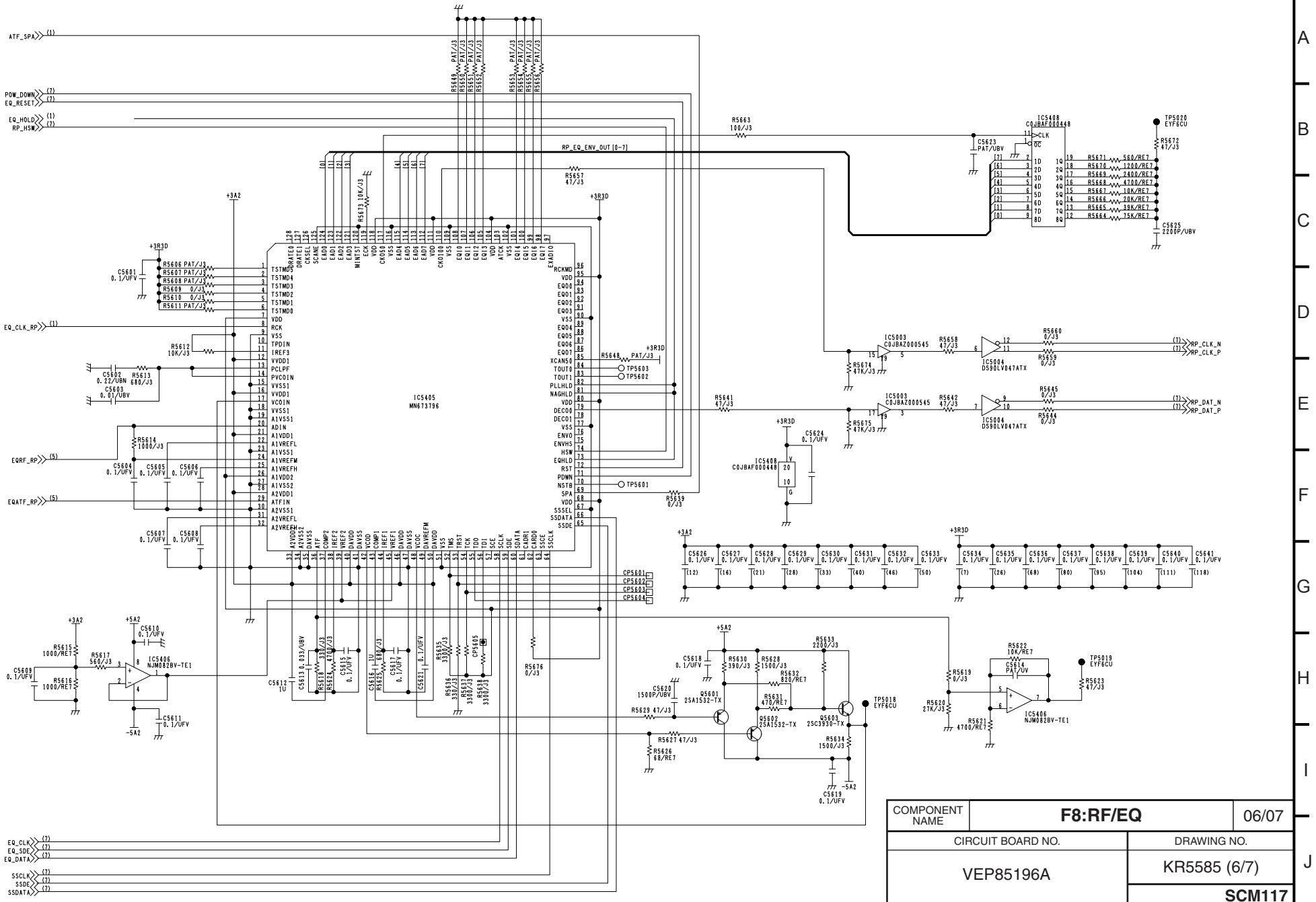
COMPONENT NAME	**F8:RF/EQ**	03/07
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85196A	KR5585 (3/7)	
	SCM114	



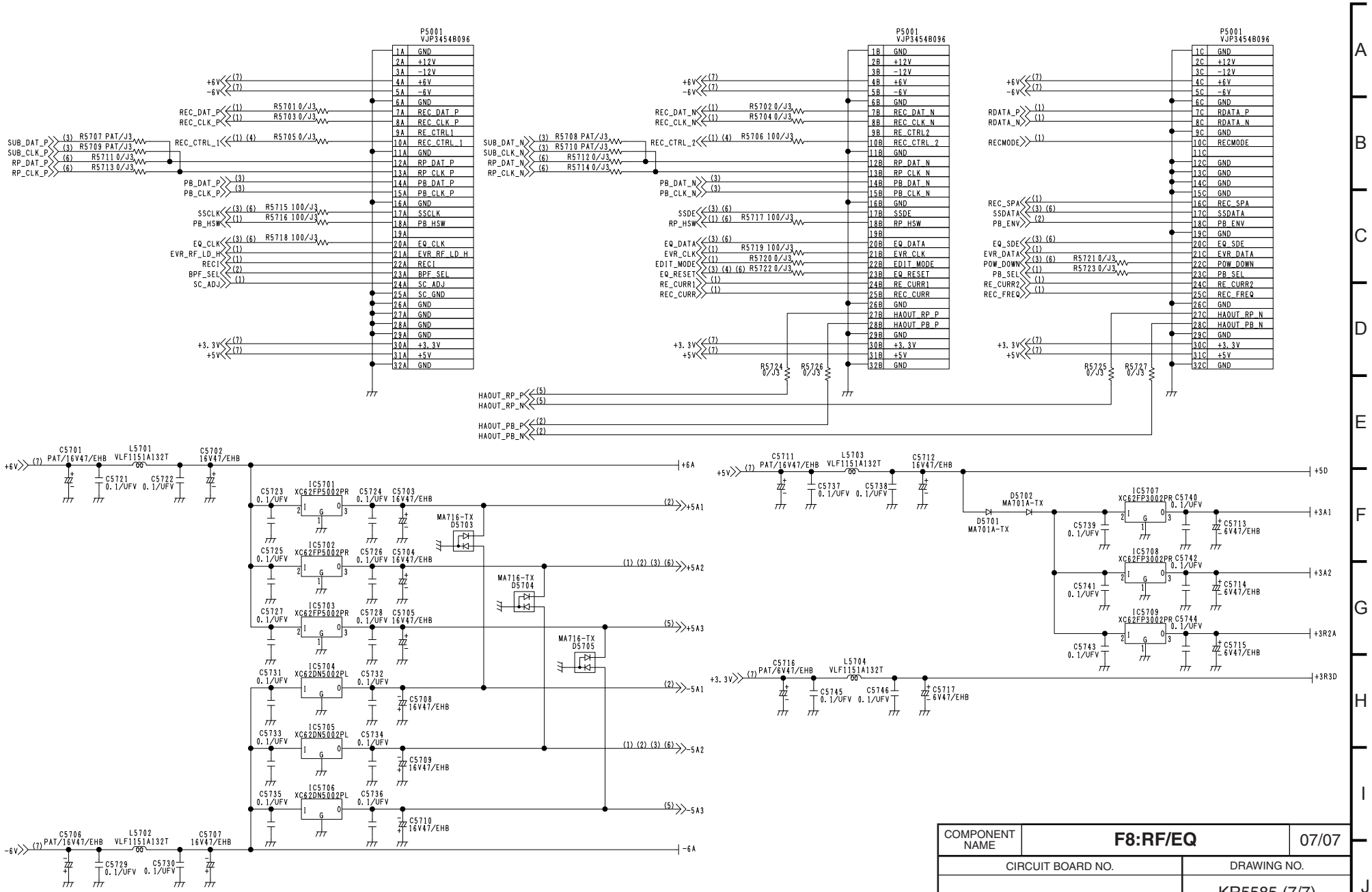
COMPONENT NAME	F8:RF/EQ	04/07
CIRCUIT BOARD NO.	DRAWING NO.	
VEP85196A	KR5585 (4/7)	
	SCM115	



COMPONENT NAME	F8:RF/EQ	05/07
CIRCUIT BOARD NO.		DRAWING NO.
VEP85196A		KR5585 (5/7)
		SCM116

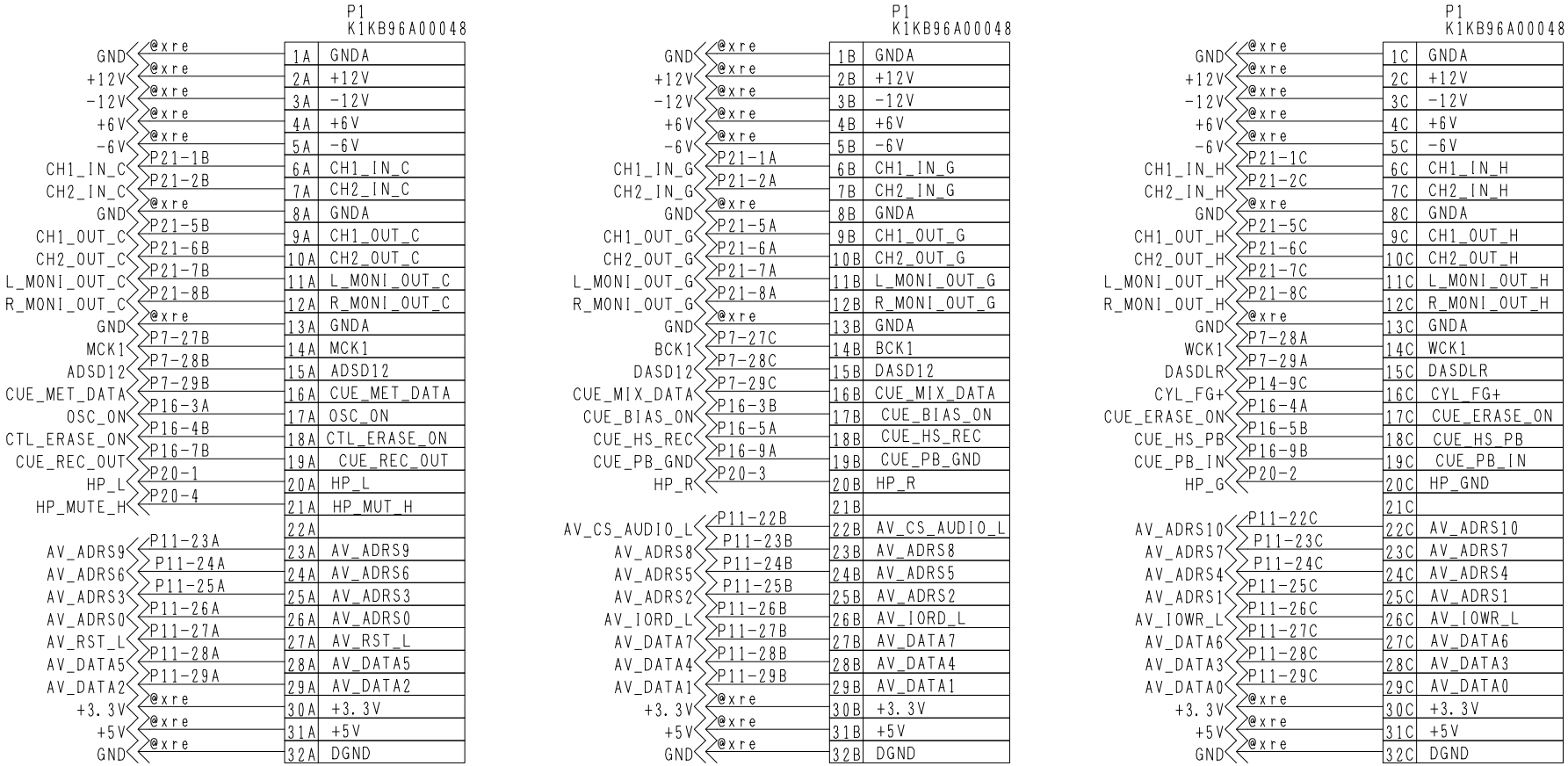


COMPONENT NAME	F8:RF/EQ	06/07
CIRCUIT BOARD NO.		DRAWING NO.
VEP85196A		KR5585 (6/7)
		SCM117



COMPONENT NAME	F8:RF/EQ	07/07
CIRCUIT BOARD NO.		DRAWING NO.
VEP85196A		KR5585 (7/7)
		SCM118

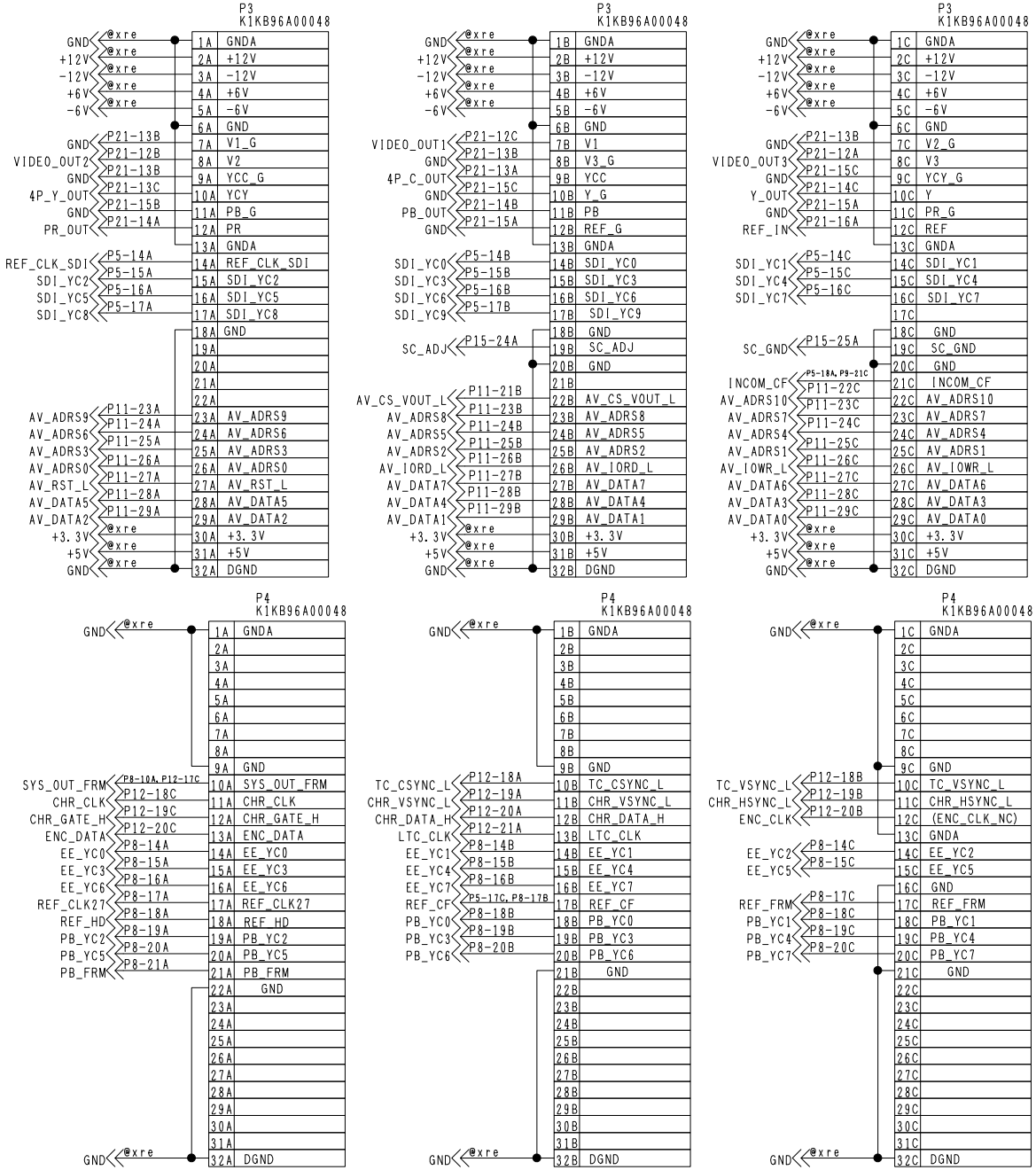
F1 (AUDIO)

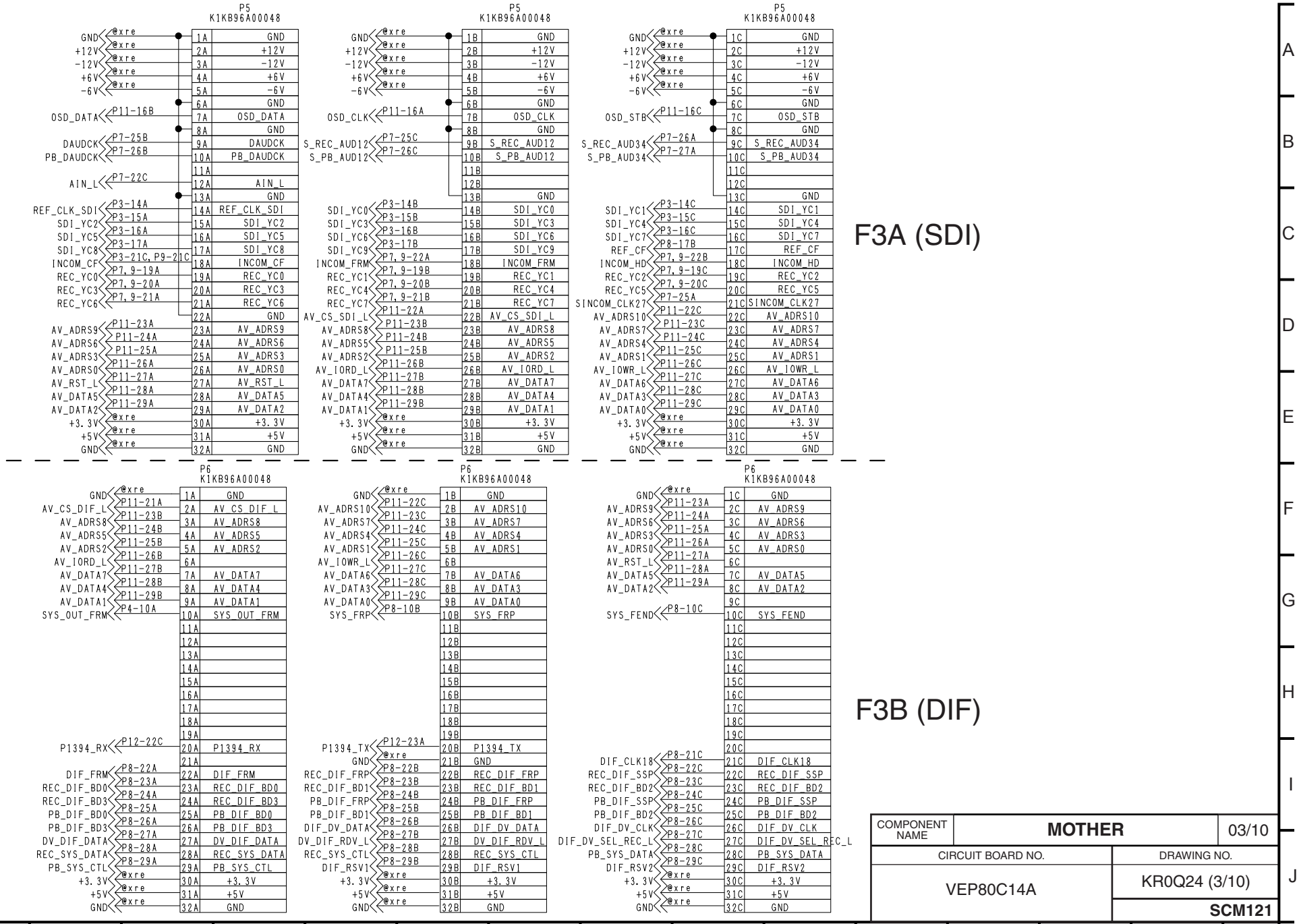


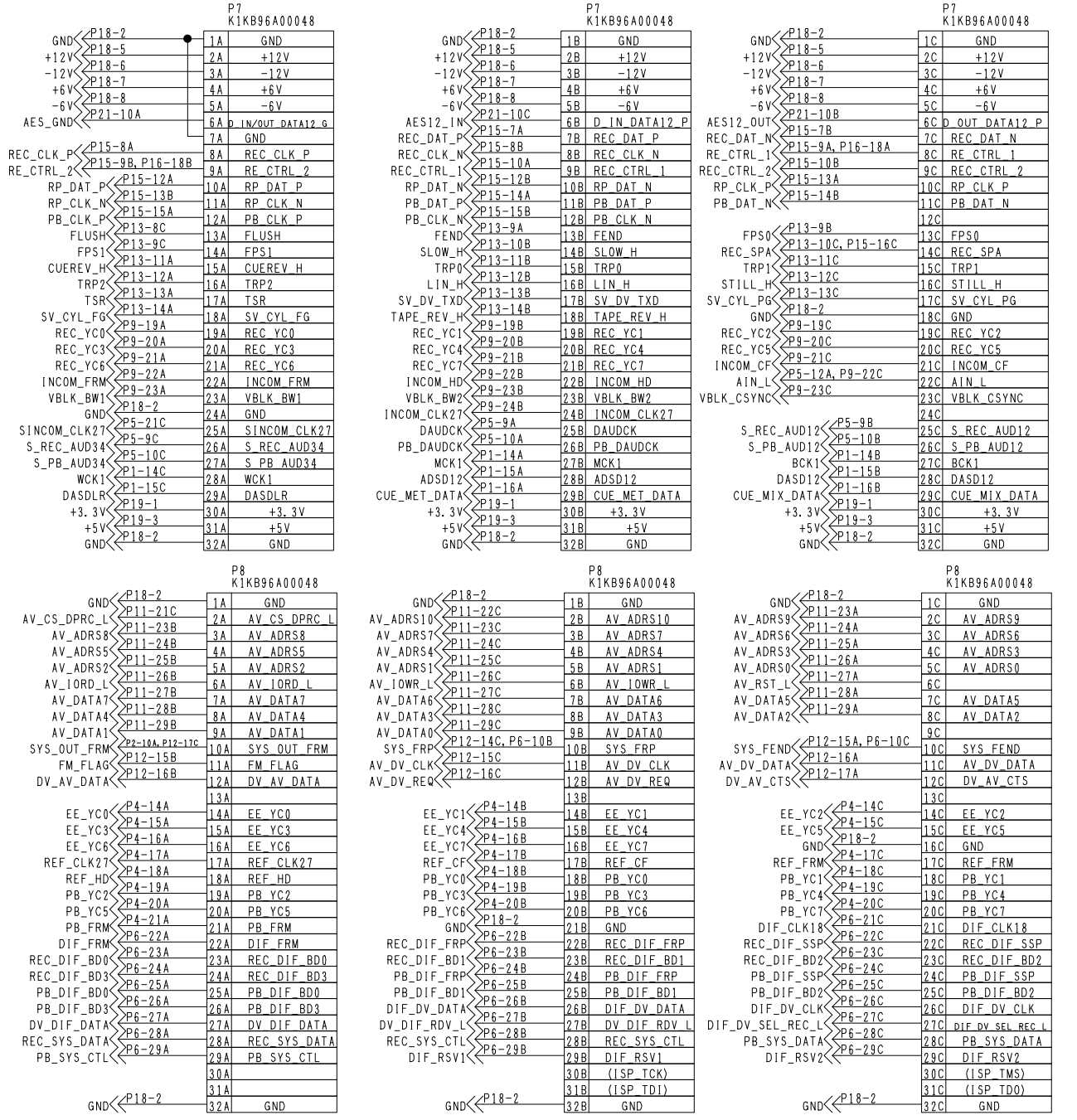
COMPONENT NAME	MOTHER	01/10
CIRCUIT BOARD NO.		DRAWING NO.
VEP80C14A		KR0Q24 (1/10)
		SCM119

A B C D E F G H I J

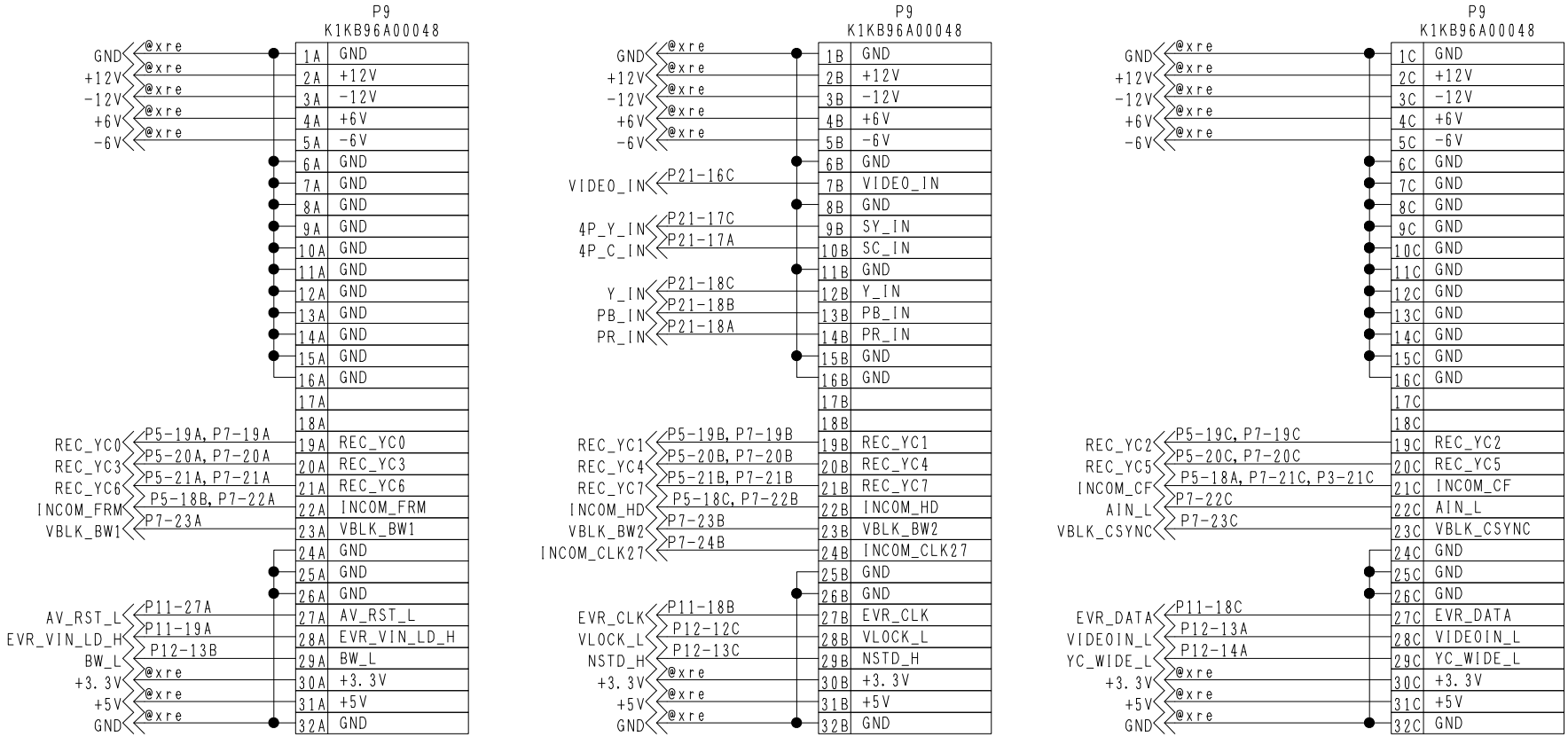
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15


P3
K1KB96A00048
P4
K1KB96A00048
F2 (V_OUT)
COMPONENT NAME
MOTHER
02/10
CIRCUIT BOARD NO.
VEP80C14A
DRAWING NO.
KR0Q24 (2/10)
SCM120

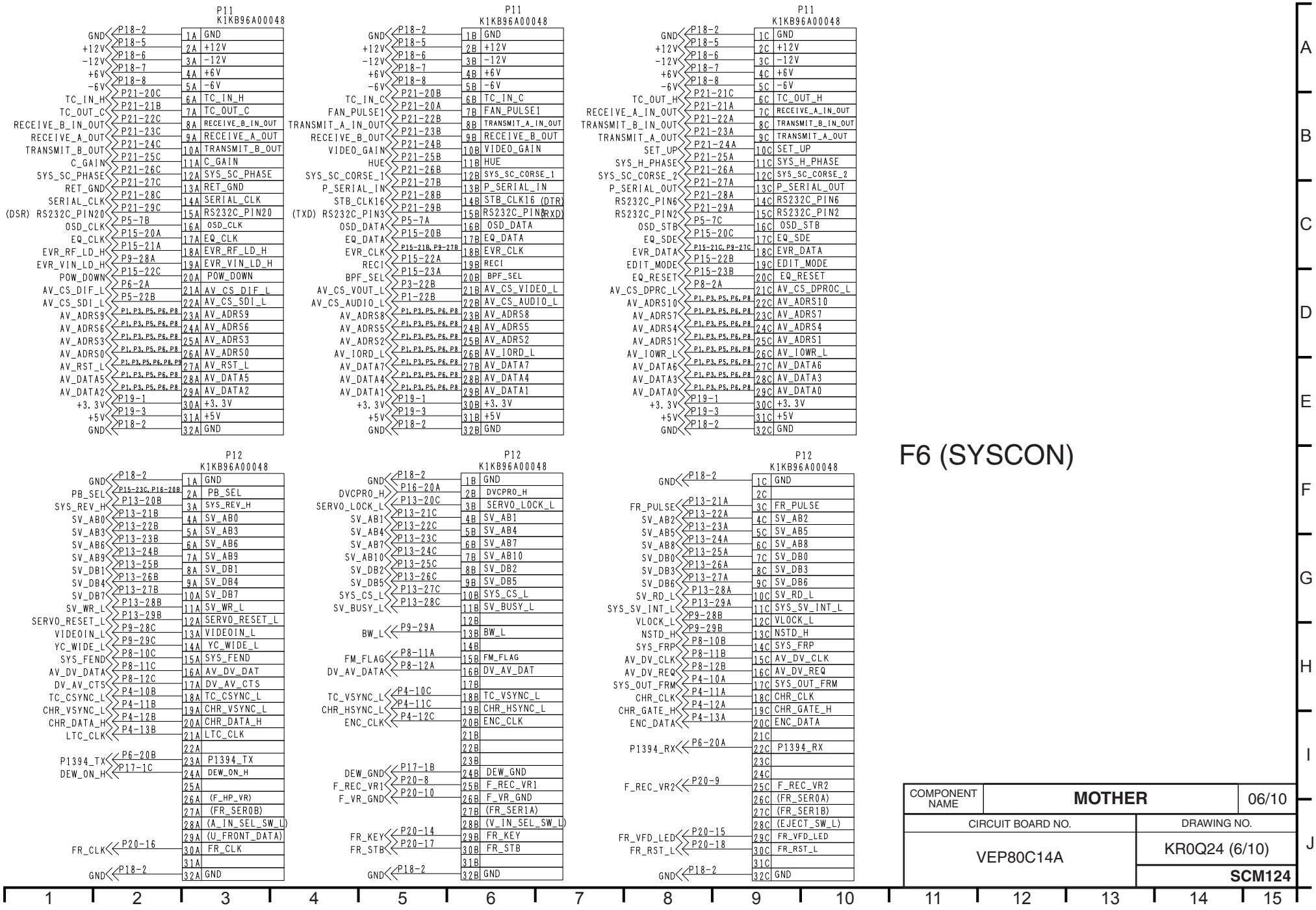

P5
K1KB96A00048
GND
+12V
-12V
+6V
-6V
OSD_DATA
DAUDCK
PB_DAUDCK
AIN_L
REF_CLK_SDI
SDI_YC2
SDI_YC5
SDI_YC8
INCOM_CF
REC_YC0
REC_YC3
REC_YC6
AV_ADRS9
AV_ADRS6
AV_ADRS3
AV_ADRS0
AV_RST_L
AV_DATA5
AV_DATA2
+3.3V
+5V
GND
P5
K1KB96A00048
GND
+12V
-12V
+6V
-6V
OSD_CLK
S_REC_AUD12
S_PB_AUD12
SDI_YC0
SDI_YC3
SDI_YC6
SDI_YC9
INCOM_FRM
REC_YC1
REC_YC4
REC_YC7
AV_CS_SDI_L
AV_ADRS8
AV_ADRS5
AV_ADRS2
AV_IORD_L
AV_DATA7
AV_DATA4
AV_DATA1
+3.3V
+5V
GND
P5
K1KB96A00048
GND
+12V
-12V
+6V
-6V
OSD_STB
S_REC_AUD34
S_PB_AUD34
SDI_YC1
SDI_YC4
SDI_YC7
REF_CF
INCOM_HD
REC_YC2
REC_YC5
SINCOM_CLK27
AV_ADRS10
AV_ADRS7
AV_ADRS4
AV_ADRS1
AV_IOWR_L
AV_DATA6
AV_DATA3
AV_DATA0
+3.3V
+5V
GND
F3A (SDI)
P6
K1KB96A00048
GND
AV_CS_DIF_L
AV_ADRS8
AV_ADRS5
AV_ADRS2
AV_IORD_L
AV_DATA7
AV_DATA4
AV_DATA1
SYS_OUT_FRM
P1394_RX
DIF_FRM
REC_DIF_BD0
REC_DIF_BD3
PB_DIF_BD0
PB_DIF_BD3
DV_DIF_DATA
REC_SYS_DATA
PB_SYS_CTL
+3.3V
+5V
GND
P6
K1KB96A00048
GND
AV_ADRS10
AV_ADRS7
AV_ADRS4
AV_ADRS1
AV_IOWR_L
AV_DATA6
AV_DATA3
AV_DATA0
SYS_FRP
P1394_TX
GND
REC_DIF_FRP
REC_DIF_BD1
PB_DIF_FRP
PB_DIF_BD1
DIF_DV_DATA
DV_DIF_RDV_L
REC_SYS_CTL
DIF_RSV1
+3.3V
+5V
GND
P6
K1KB96A00048
GND
AV_ADRS9
AV_ADRS6
AV_ADRS3
AV_ADRS0
AV_RST_L
AV_DATA5
AV_DATA2
SYS_FEND
DIF_CLK18
REC_DIF_SSP
REC_DIF_BD2
PB_DIF_SSP
PB_DIF_BD2
DIF_DV_CLK
DIF_DV_SEL_REC_L
PB_SYS_DATA
DIF_RSV2
+3.3V
+5V
GND
F3B (DIF)
COMPONENT NAME
MOTHER
03/10
CIRCUIT BOARD NO.
VEP80C14A
DRAWING NO.
KR0Q24 (3/10)
SCM121

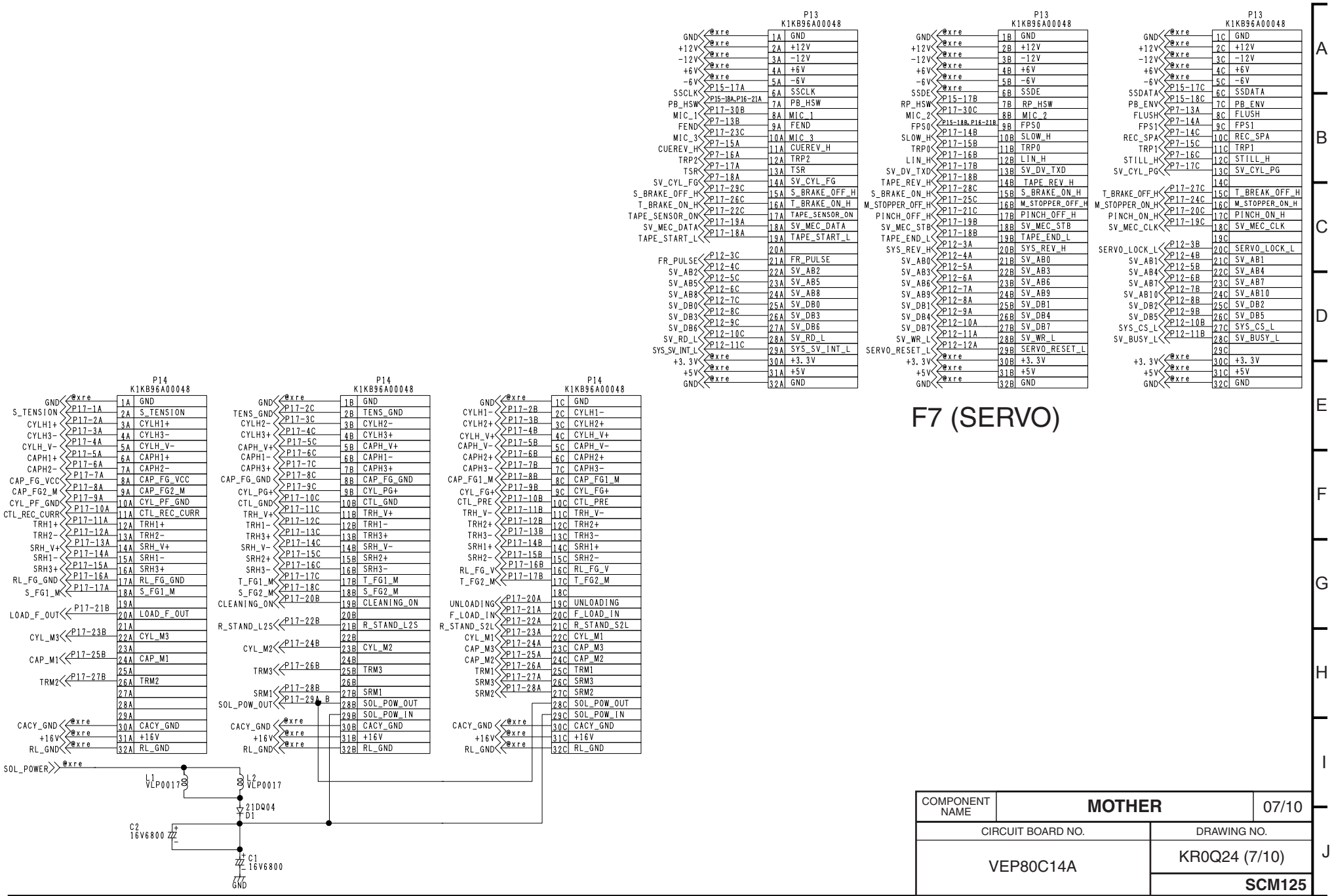

P7
K1KB96A00048
GND P18-2 1A GND
+12V P18-5 2A +12V
-12V P18-6 3A -12V
+6V P18-7 4A +6V
-6V P18-8 5A -6V
AES_GND P21-10A 6A D_IN/OUT_DATA12_G
7A GND
REC_CLK_P P15-8A 8A REC_CLK_P
RE_CTRL_2 P15-9B, P16-18B 9A RE_CTRL_2
RP_DAT_P P15-12A 10A RP_DAT_P
RP_CLK_N P15-13B 11A RP_CLK_N
PB_CLK_P P15-15A 12A PB_CLK_P
FLUSH P13-8C 13A FLUSH
FPS1 P13-9C 14A FPS1
CUEREV_H P13-11A 15A CUEREV_H
TRP2 P13-12A 16A TRP2
TSR P13-13A 17A TSR
SV_CYL_FG P13-14A 18A SV_CYL_FG
REC_YC0 P9-19A 19A REC_YC0
REC_YC3 P9-20A 20A REC_YC3
REC_YC6 P9-21A 21A REC_YC6
INCOM_FRM P9-22A 22A INCOM_FRM
VBLK_BW1 P9-23A 23A VBLK_BW1
GND P18-2 24A GND
SINCOM_CLK27 P5-21C 25A SINCOM_CLK27
S_REC_AUD34 P5-9C 26A S_REC_AUD34
S_PB_AUD34 P5-10C 27A S_PB_AUD34
WCK1 P1-14C 28A WCK1
DASDLR P1-15C 29A DASDLR
+3.3V P19-1 30A +3.3V
+5V P19-3 31A +5V
GND P18-2 32A GND
P7
K1KB96A00048
GND P18-2 1B GND
+12V P18-5 2B +12V
-12V P18-6 3B -12V
+6V P18-7 4B +6V
-6V P18-8 5B -6V
AES12_IN P21-10C 6B D_IN_DATA12_P
REC_DAT_P P15-7A 7B REC_DAT_P
REC_CLK_N P15-8B 8B REC_CLK_N
REC_CTRL_1 P15-10A 9B REC_CTRL_1
RP_DAT_N P15-12B 10B RP_DAT_N
PB_DAT_P P15-14A 11B PB_DAT_P
PB_CLK_N P15-15B 12B PB_CLK_N
FEND P13-9A 13B FEND
SLOW_H P13-10B 14B SLOW_H
TRP0 P13-11B 15B TRP0
LIN_H P13-12B 16B LIN_H
SV_DV_TXD P13-13B 17B SV_DV_TXD
TAPE_REV_H P13-14B 18B TAPE_REV_H
REC_YC1 P9-19B 19B REC_YC1
REC_YC4 P9-20B 20B REC_YC4
REC_YC7 P9-21B 21B REC_YC7
INCOM_HD P9-22B 22B INCOM_HD
VBLK_BW2 P9-23B 23B VBLK_BW2
INCOM_CLK27 P9-24B 24B INCOM_CLK27
DAUDCK P5-9A 25B DAUDCK
PB_DAUDCK P5-10A 26B PB_DAUDCK
MCK1 P1-14A 27B MCK1
ADSD12 P1-15A 28B ADSD12
CUE_MET_DATA P1-16A 29B CUE_MET_DATA
+3.3V P19-1 30B +3.3V
+5V P19-3 31B +5V
GND P18-2 32B GND
P7
K1KB96A00048
GND P18-2 1C GND
+12V P18-5 2C +12V
-12V P18-6 3C -12V
+6V P18-7 4C +6V
-6V P18-8 5C -6V
AES12_OUT P21-10B 6C D_OUT_DATA12_P
REC_DAT_N P15-7B 7C REC_DAT_N
RE_CTRL_1 P15-9A, P16-18A 8C RE_CTRL_1
REC_CTRL_2 P15-10B 9C REC_CTRL_2
RP_CLK_P P15-13A 10C RP_CLK_P
PB_DAT_N P15-14B 11C PB_DAT_N
12C
FPS0 P13-9B 13C FPS0
REC_SPA P13-10C, P15-16C 14C REC_SPA
TRP1 P13-11C 15C TRP1
STILL_H P13-12C 16C STILL_H
SV_CYL_PG P13-13C 17C SV_CYL_PG
GND P18-2 18C GND
REC_YC2 P9-19C 19C REC_YC2
REC_YC5 P9-20C 20C REC_YC5
INCOM_CF P9-21C 21C INCOM_CF
AIN_L P5-12A, P9-22C 22C AIN_L
VBLK_CSYNC P9-23C 23C VBLK_CSYNC
24C
S_REC_AUD12 P5-9B 25C S_REC_AUD12
S_PB_AUD12 P5-10B 26C S_PB_AUD12
BCK1 P1-14B 27C BCK1
DASD12 P1-15B 28C DASD12
CUE_MIX_DATA P1-16B 29C CUE_MIX_DATA
+3.3V P19-1 30C +3.3V
+5V P19-3 31C +5V
GND P18-2 32C GND
P8
K1KB96A00048
GND P18-2 1A GND
AV_CS_DPRC_L P11-21C 2A AV_CS_DPRC_L
AV_ADRS8 P11-23B 3A AV_ADRS8
AV_ADRS5 P11-24B 4A AV_ADRS5
AV_ADRS2 P11-25B 5A AV_ADRS2
AV_IORD_L P11-26B 6A AV_IORD_L
AV_DATA7 P11-27B 7A AV_DATA7
AV_DATA4 P11-28B 8A AV_DATA4
AV_DATA1 P11-29B 9A AV_DATA1
SYS_OUT_FRM P2-10A, P12-17C 10A SYS_OUT_FRM
FM_FLAG P12-15B 11A FM_FLAG
DV_AV_DATA P12-16B 12A DV_AV_DATA
13A
EE_YC0 P4-14A 14A EE_YC0
EE_YC3 P4-15A 15A EE_YC3
EE_YC6 P4-16A 16A EE_YC6
REF_CLK27 P4-17A 17A REF_CLK27
REF_HD P4-18A 18A REF_HD
PB_YC2 P4-19A 19A PB_YC2
PB_YC5 P4-20A 20A PB_YC5
PB_FRM P4-21A 21A PB_FRM
DIF_FRM P6-22A 22A DIF_FRM
REC_DIF_BD0 P6-23A 23A REC_DIF_BD0
REC_DIF_BD3 P6-24A 24A REC_DIF_BD3
PB_DIF_BD0 P6-25A 25A PB_DIF_BD0
PB_DIF_BD3 P6-26A 26A PB_DIF_BD3
DV_DIF_DATA P6-27A 27A DV_DIF_DATA
REC_SYS_DATA P6-28A 28A REC_SYS_DATA
PB_SYS_CTL P6-29A 29A PB_SYS_CTL
30A
31A
GND P18-2 32A GND
P8
K1KB96A00048
GND P18-2 1B GND
AV_ADRS10 P11-22C 2B AV_ADRS10
AV_ADRS7 P11-23C 3B AV_ADRS7
AV_ADRS4 P11-24C 4B AV_ADRS4
AV_ADRS1 P11-25C 5B AV_ADRS1
AV_IOWR_L P11-26C 6B AV_IOWR_L
AV_DATA6 P11-27C 7B AV_DATA6
AV_DATA3 P11-28C 8B AV_DATA3
AV_DATA0 P11-29C 9B AV_DATA0
SYS_FRP P12-14C, P6-10B 10B SYS_FRP
AV_DV_CLK P12-15C 11B AV_DV_CLK
AV_DV_REQ P12-16C 12B AV_DV_REQ
13B
EE_YC1 P4-14B 14B EE_YC1
EE_YC4 P4-15B 15B EE_YC4
EE_YC7 P4-16B 16B EE_YC7
REF_CF P4-17B 17B REF_CF
PB_YC0 P4-18B 18B PB_YC0
PB_YC3 P4-19B 19B PB_YC3
PB_YC6 P4-20B 20B PB_YC6
GND P18-2 21B GND
REC_DIF_FRP P6-22B 22B REC_DIF_FRP
REC_DIF_BD1 P6-23B 23B REC_DIF_BD1
PB_DIF_FRP P6-24B 24B PB_DIF_FRP
PB_DIF_BD1 P6-25B 25B PB_DIF_BD1
DIF_DV_DATA P6-26B 26B DIF_DV_DATA
DV_DIF_RDV_L P6-27B 27B DV_DIF_RDV_L
REC_SYS_CTL P6-28B 28B REC_SYS_CTL
DIF_RSV1 P6-29B 29B DIF_RSV1
30B (ISP_TCK)
31B (ISP_TDI)
GND P18-2 32B GND
P8
K1KB96A00048
GND P18-2 1C GND
AV_ADRS9 P11-23A 2C AV_ADRS9
AV_ADRS6 P11-24A 3C AV_ADRS6
AV_ADRS3 P11-25A 4C AV_ADRS3
AV_ADRS0 P11-26A 5C AV_ADRS0
AV_RST_L P11-27A 6C
AV_DATA5 P11-28A 7C AV_DATA5
AV_DATA2 P11-29A 8C AV_DATA2
9C
SYS_FEND P12-15A, P6-10C 10C SYS_FEND
AV_DV_DATA P12-16A 11C AV_DV_DATA
DV_AV_CTS P12-17A 12C DV_AV_CTS
13C
EE_YC2 P4-14C 14C EE_YC2
EE_YC5 P4-15C 15C EE_YC5
GND P18-2 16C GND
REF_FRM P4-17C 17C REF_FRM
PB_YC1 P4-18C 18C PB_YC1
PB_YC4 P4-19C 19C PB_YC4
PB_YC7 P4-20C 20C PB_YC7
DIF_CLK18 P6-21C 21C DIF_CLK18
REC_DIF_SSP P6-22C 22C REC_DIF_SSP
REC_DIF_BD2 P6-23C 23C REC_DIF_BD2
PB_DIF_SSP P6-24C 24C PB_DIF_SSP
PB_DIF_BD2 P6-25C 25C PB_DIF_BD2
DIF_DV_CLK P6-26C 26C DIF_DV_CLK
DIF_DV_SEL_REC_L P6-27C 27C DIF_DV_SEL_REC_L
PB_SYS_DATA P6-28C 28C PB_SYS_DATA
DIF_RSV2 P6-29C 29C DIF_RSV2
30C (ISP_TMS)
31C (ISP_TDO)
GND P18-2 32C GND
F4 (D_PROC)
COMPONENT NAME
MOTHER
04/10
CIRCUIT BOARD NO.
VEP80C14A
DRAWING NO.
KR0Q24 (4/10)
SCM122
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

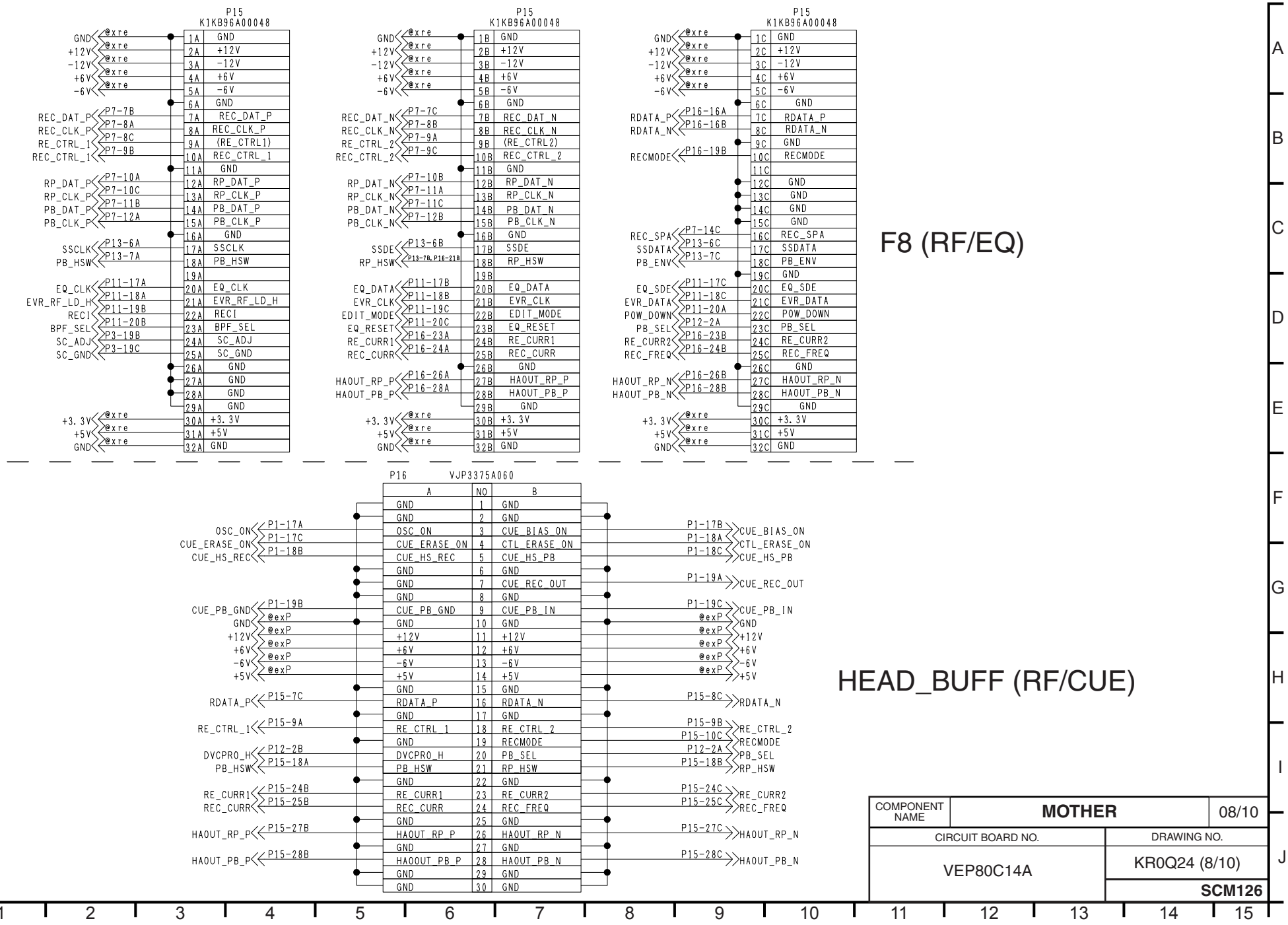
F5 (V_IN)



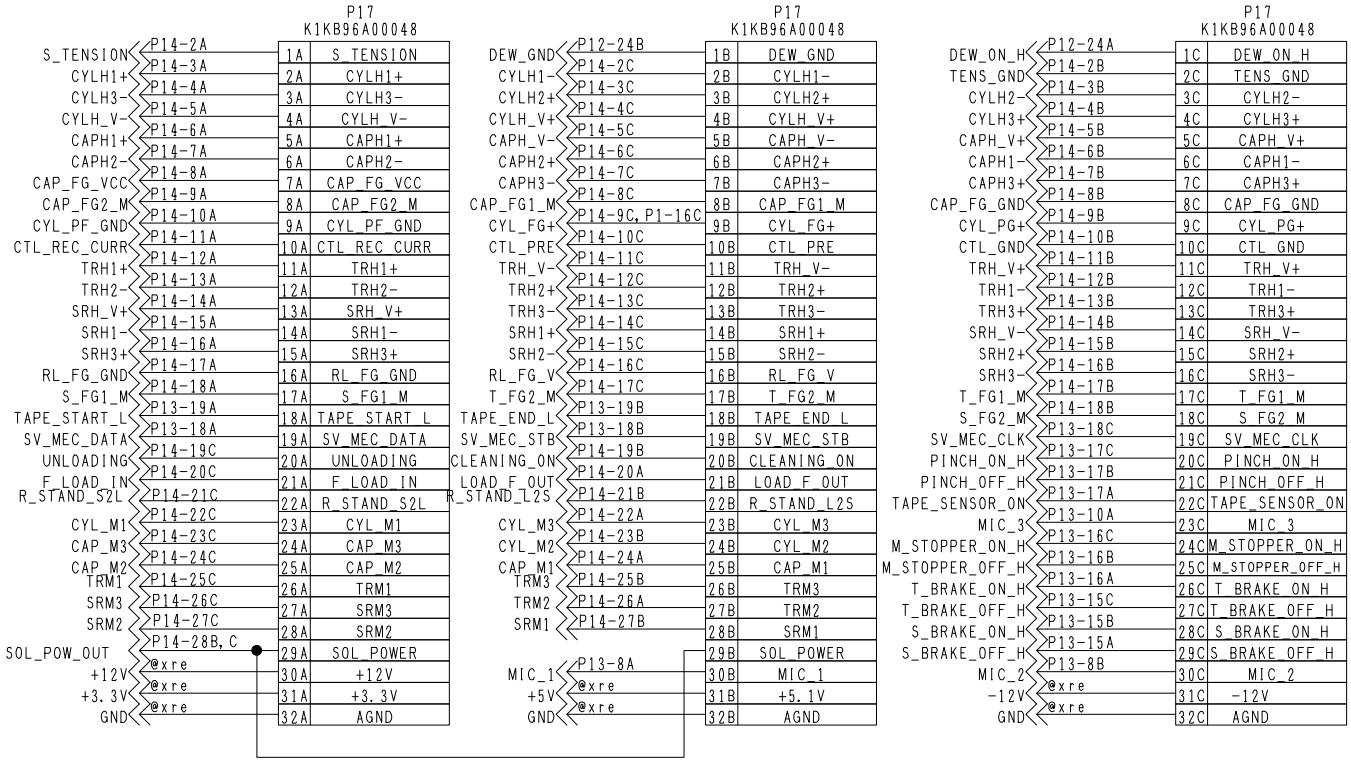
COMPONENT NAME	MOTHER	05/10
CIRCUIT BOARD NO.		DRAWING NO.
VEP80C14A		KR0Q24 (5/10)
		SCM123


P11
K1KB96A00048
GND P18-2 1A GND
+12V P18-5 2A +12V
-12V P18-6 3A -12V
+6V P18-7 4A +6V
-6V P18-8 5A -6V
TC_IN_H P21-20C 6A TC_IN_H
TC_OUT_C P21-21B 7A TC_OUT_C
RECEIVE_B_IN_OUT P21-22C 8A RECEIVE_B_IN_OUT
RECEIVE_A_OUT P21-23C 9A RECEIVE_A_OUT
TRANSMIT_B_OUT P21-24C 10A TRANSMIT_B_OUT
C_GAIN P21-25C 11A C_GAIN
SYS_SC_PHASE P21-26C 12A SYS_SC_PHASE
RET_GND P21-27C 13A RET_GND
SERIAL_CLK P21-28C 14A SERIAL_CLK
(DSR) RS232C_PIN20 P21-29C 15A RS232C_PIN20
OSD_CLK P5-7B 16A OSD_CLK
EQ_CLK P15-20A 17A EQ_CLK
EVR_RF_LD_H P15-21A 18A EVR_RF_LD_H
EVR_VIN_LD_H P9-28A 19A EVR_VIN_LD_H
POW_DOWN P15-22C 20A POW_DOWN
AV_CS_DIF_L P6-2A 21A AV_CS_DIF_L
AV_CS_SDI_L P5-22B 22A AV_CS_SDI_L
AV_ADRS9 P1, P3, P5, P6, P8 23A AV_ADRS9
AV_ADRS6 P1, P3, P5, P6, P8 24A AV_ADRS6
AV_ADRS3 P1, P3, P5, P6, P8 25A AV_ADRS3
AV_ADRS0 P1, P3, P5, P6, P8 26A AV_ADRS0
AV_RST_L P1, P3, P5, P6, P8, P9 27A AV_RST_L
AV_DATA5 P1, P3, P5, P6, P8 28A AV_DATA5
AV_DATA2 P1, P3, P5, P6, P8 29A AV_DATA2
+3.3V P19-1 30A +3.3V
+5V P19-3 31A +5V
GND P18-2 32A GND
P11
K1KB96A00048
GND P18-2 1B GND
+12V P18-5 2B +12V
-12V P18-6 3B -12V
+6V P18-7 4B +6V
-6V P18-8 5B -6V
TC_IN_C P21-20B 6B TC_IN_C
FAN_PULSE1 P21-20A 7B FAN_PULSE1
TRANSMIT_A_IN_OUT P21-22B 8B TRANSMIT_A_IN_OUT
RECEIVE_B_OUT P21-23B 9B RECEIVE_B_OUT
VIDEO_GAIN P21-24B 10B VIDEO_GAIN
HUE P21-25B 11B HUE
SYS_SC_CORSE_1 P21-26B 12B SYS_SC_CORSE_1
P_SERIAL_IN P21-27B 13B P_SERIAL_IN
STB_CLK16 P21-28B 14B STB_CLK16 (DTR)
(TXD) RS232C_PIN3 P21-29B 15B RS232C_PIN3 (RXD)
OSD_DATA P5-7A 16B OSD_DATA
EQ_DATA P15-20B 17B EQ_DATA
EVR_CLK P15-21B, P9-27B 18B EVR_CLK
RECI P15-22A 19B RECI
BPF_SEL P15-23A 20B BPF_SEL
AV_CS_VOUT_L P3-22B 21B AV_CS_VIDEO_L
AV_CS_AUDIO_L P1-22B 22B AV_CS_AUDIO_L
AV_ADRS8 P1, P3, P5, P6, P8 23B AV_ADRS8
AV_ADRS5 P1, P3, P5, P6, P8 24B AV_ADRS5
AV_ADRS2 P1, P3, P5, P6, P8 25B AV_ADRS2
AV_IORD_L P1, P3, P5, P6, P8 26B AV_IORD_L
AV_DATA7 P1, P3, P5, P6, P8 27B AV_DATA7
AV_DATA4 P1, P3, P5, P6, P8 28B AV_DATA4
AV_DATA1 P1, P3, P5, P6, P8 29B AV_DATA1
+3.3V P19-1 30B +3.3V
+5V P19-3 31B +5V
GND P18-2 32B GND
P11
K1KB96A00048
GND P18-2 1C GND
+12V P18-5 2C +12V
-12V P18-6 3C -12V
+6V P18-7 4C +6V
-6V P18-8 5C -6V
TC_OUT_H P21-21C 6C TC_OUT_H
RECEIVE_A_IN_OUT P21-21A 7C RECEIVE_A_IN_OUT
TRANSMIT_B_IN_OUT P21-22A 8C TRANSMIT_B_IN_OUT
TRANSMIT_A_OUT P21-23A 9C TRANSMIT_A_OUT
SET_UP P21-24A 10C SET_UP
SYS_H_PHASE P21-25A 11C SYS_H_PHASE
SYS_SC_CORSE_2 P21-26A 12C SYS_SC_CORSE_2
P_SERIAL_OUT P21-27A 13C P_SERIAL_OUT
RS232C_PIN6 P21-28A 14C RS232C_PIN6
RS232C_PIN2 P21-29A 15C RS232C_PIN2
OSD_STB P5-7C 16C OSD_STB
EQ_SDE P15-20C 17C EQ_SDE
EVR_DATA P15-21C, P9-27C 18C EVR_DATA
EDIT_MODE P15-22B 19C EDIT_MODE
EQ_RESET P15-23B 20C EQ_RESET
AV_CS_DPROC_L P8-2A 21C AV_CS_DPROC_L
AV_ADRS10 P1, P3, P5, P6, P8 22C AV_ADRS10
AV_ADRS7 P1, P3, P5, P6, P8 23C AV_ADRS7
AV_ADRS4 P1, P3, P5, P6, P8 24C AV_ADRS4
AV_ADRS1 P1, P3, P5, P6, P8 25C AV_ADRS1
AV_IOWR_L P1, P3, P5, P6, P8 26C AV_IOWR_L
AV_DATA6 P1, P3, P5, P6, P8 27C AV_DATA6
AV_DATA3 P1, P3, P5, P6, P8 28C AV_DATA3
AV_DATA0 P1, P3, P5, P6, P8 29C AV_DATA0
+3.3V P19-1 30C +3.3V
+5V P19-3 31C +5V
GND P18-2 32C GND
P12
K1KB96A00048
GND P18-2 1A GND
PB_SEL P15-23C, P16-20B 2A PB_SEL
SYS_REV_H P13-20B 3A SYS_REV_H
SV_AB0 P13-21B 4A SV_AB0
SV_AB3 P13-22B 5A SV_AB3
SV_AB6 P13-23B 6A SV_AB6
SV_AB9 P13-24B 7A SV_AB9
SV_DB1 P13-25B 8A SV_DB1
SV_DB4 P13-26B 9A SV_DB4
SV_DB7 P13-27B 10A SV_DB7
SV_WR_L P13-28B 11A SV_WR_L
SERVO_RESET_L P13-29B 12A SERVO_RESET_L
VIDEOIN_L P9-28C 13A VIDEOIN_L
YC_WIDE_L P9-29C 14A YC_WIDE_L
SYS_FEND P8-10C 15A SYS_FEND
AV_DV_DATA P8-11C 16A AV_DV_DAT
DV_AV_CTS P8-12C 17A DV_AV_CTS
TC_CSYNC_L P4-10B 18A TC_CSYNC_L
CHR_VSYNC_L P4-11B 19A CHR_VSYNC_L
CHR_DATA_H P4-12B 20A CHR_DATA_H
LTC_CLK P4-13B 21A LTC_CLK
22A
P1394_TX P6-20B 23A P1394_TX
DEW_ON_H P17-1C 24A DEW_ON_H
25A
26A (F_HP_VR)
27A (FR_SER0B)
28A (A_IN_SEL_SW_L)
FR_CLK P20-16 29A (U_FRONT_DATA)
30A FR_CLK
31A
GND P18-2 32A GND
P12
K1KB96A00048
GND P18-2 1B GND
DVCPRO_H P16-20A 2B DVCPRO_H
SERVO_LOCK_L P13-20C 3B SERVO_LOCK_L
SV_AB1 P13-21C 4B SV_AB1
SV_AB4 P13-22C 5B SV_AB4
SV_AB7 P13-23C 6B SV_AB7
SV_AB10 P13-24C 7B SV_AB10
SV_DB2 P13-25C 8B SV_DB2
SV_DB5 P13-26C 9B SV_DB5
SYS_CS_L P13-27C 10B SYS_CS_L
SV_BUSY_L P13-28C 11B SV_BUSY_L
12B
BW_L P9-29A 13B BW_L
14B
FM_FLAG P8-11A 15B FM_FLAG
DV_AV_DATA P8-12A 16B DV_AV_DAT
17B
TC_VSYNC_L P4-10C 18B TC_VSYNC_L
CHR_HSYNC_L P4-11C 19B CHR_HSYNC_L
ENC_CLK P4-12C 20B ENC_CLK
21B
22B
23B
DEW_GND P17-1B 24B DEW_GND
F_REC_VR1 P20-8 25B F_REC_VR1
F_VR_GND P20-10 26B F_VR_GND
27B (FR_SER1A)
28B (V_IN_SEL_SW_L)
FR_KEY P20-14 29B FR_KEY
FR_STB P20-17 30B FR_STB
31B
GND P18-2 32B GND
P12
K1KB96A00048
GND P18-2 1C GND
2C
FR_PULSE P13-21A 3C FR_PULSE
SV_AB2 P13-22A 4C SV_AB2
SV_AB5 P13-23A 5C SV_AB5
SV_AB8 P13-24A 6C SV_AB8
SV_DB0 P13-25A 7C SV_DB0
SV_DB3 P13-26A 8C SV_DB3
SV_DB6 P13-27A 9C SV_DB6
SV_RD_L P13-28A 10C SV_RD_L
SYS_SV_INT_L P13-29A 11C SYS_SV_INT_L
VLOCK_L P9-28B 12C VLOCK_L
NSTD_H P9-29B 13C NSTD_H
SYS_FRP P8-10B 14C SYS_FRP
AV_DV_CLK P8-11B 15C AV_DV_CLK
AV_DV_REQ P8-12B 16C AV_DV_REQ
SYS_OUT_FRM P4-10A 17C SYS_OUT_FRM
CHR_CLK P4-11A 18C CHR_CLK
CHR_GATE_H P4-12A 19C CHR_GATE_H
ENC_DATA P4-13A 20C ENC_DATA
21C
P1394_RX P6-20A 22C P1394_RX
23C
24C
F_REC_VR2 P20-9 25C F_REC_VR2
26C (FR_SER0A)
27C (FR_SER1B)
28C (EJECT_SW_L)
FR_VFD_LED P20-15 29C FR_VFD_LED
FR_RST_L P20-18 30C FR_RST_L
31C
GND P18-2 32C GND
F6 (SYSCON)
COMPONENT NAME
MOTHER
06/10
CIRCUIT BOARD NO.
VEP80C14A
DRAWING NO.
KR0Q24 (6/10)
SCM124
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

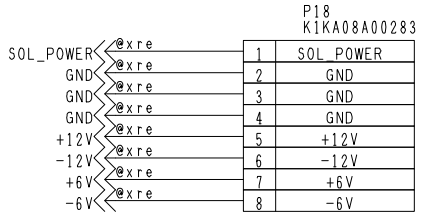

P13
K1KB96A00048
GND
+12V
-12V
+6V
-6V
SSCLK
PB_HSW
MIC_1
FEND
MIC_3
CUEREV_H
TRP2
TSR
SV_CYL_FG
S_BRAKE_OFF_H
T_BRAKE_ON_H
TAPE_SENSOR_ON
SV_MEC_DATA
TAPE_START_L
FR_PULSE
SV_AB2
SV_AB5
SV_AB8
SV_DB0
SV_DB3
SV_DB6
SV_RD_L
SYS_SV_INT_L
+3.3V
+5V
GND
P13
K1KB96A00048
GND
+12V
-12V
+6V
-6V
SSDE
RP_HSW
MIC_2
FPS0
SLOW_H
TRP0
LIN_H
SV_DV_TXD
TAPE_REV_H
S_BRAKE_ON_H
M_STOPPER_OFF_H
PINCH_OFF_H
SV_MEC_STB
TAPE_END_L
SYS_REV_H
SV_AB0
SV_AB3
SV_AB6
SV_AB9
SV_DB1
SV_DB4
SV_DB7
SV_WR_L
SERVO_RESET_L
+3.3V
+5V
GND
P13
K1KB96A00048
GND
+12V
-12V
+6V
-6V
SSDATA
PB_ENV
FLUSH
FPS1
REC_SPA
TRP1
STILL_H
SV_CYL_PG
T_BRAKE_OFF_H
M_STOPPER_ON_H
PINCH_ON_H
SV_MEC_CLK
SERVO_LOCK_L
SV_AB1
SV_AB4
SV_AB7
SV_AB10
SV_DB2
SV_DB5
SYS_CS_L
SV_BUSY_L
+3.3V
+5V
GND
F7 (SERVO)
P14
K1KB96A00048
GND
S_TENSION
CYLH1+
CYLH3-
CYLH_V-
CAPH1+
CAPH2-
CAP_FG_VCC
CAP_FG2_M
CYL_PF_GND
CTL_REC_CURR
TRH1+
TRH2-
SRH_V+
SRH1-
SRH3+
RL_FG_GND
S_FG1_M
LOAD_F_OUT
CYL_M3
CAP_M1
TRM2
CACY_GND
+16V
RL_GND
P14
K1KB96A00048
GND
TENS_GND
CYLH2-
CYLH3+
CAPH_V+
CAPH1-
CAPH3+
CAP_FG_GND
CYL_PG+
CTL_GND
TRH_V+
TRH1-
TRH3+
SRH_V-
SRH2+
SRH3-
T_FG1_M
S_FG2_M
CLEANING_ON
R_STAND_L2S
CYL_M2
TRM3
SRM1
SOL_POW_OUT
SOL_POW_IN
CACY_GND
+16V
RL_GND
P14
K1KB96A00048
GND
CYLH1-
CYLH2+
CYLH_V+
CAPH_V-
CAPH2+
CAPH3-
CAP_FG1_M
CYL_FG+
CTL_PRE
TRH_V-
TRH2+
TRH3-
SRH1+
SRH2-
RL_FG_V
T_FG2_M
UNLOADING
F_LOAD_IN
R_STAND_S2L
CYL_M1
CAP_M3
CAP_M2
TRM1
SRM3
SRM2
SOL_POW_OUT
SOL_POW_IN
CACY_GND
+16V
RL_GND
SOL_POWER
L1
VLP0017
L2
VLP0017
21DQ04
D1
C2
16V6800
C1
16V6800
GND
COMPONENT NAME
MOTHER
07/10
CIRCUIT BOARD NO.
VEP80C14A
DRAWING NO.
KR0Q24 (7/10)
SCM125
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

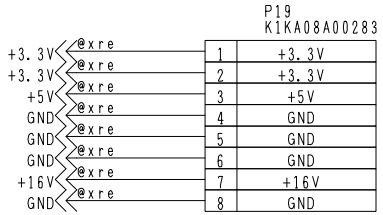

P15
K1KB96A00048
GND @xre 1A GND
+12V @xre 2A +12V
-12V @xre 3A -12V
+6V @xre 4A +6V
-6V @xre 5A -6V
6A GND
REC_DAT_P P7-7B 7A REC_DAT_P
REC_CLK_P P7-8A 8A REC_CLK_P
RE_CTRL_1 P7-8C 9A (RE_CTRL1)
REC_CTRL_1 P7-9B 10A REC_CTRL_1
11A GND
RP_DAT_P P7-10A 12A RP_DAT_P
RP_CLK_P P7-10C 13A RP_CLK_P
PB_DAT_P P7-11B 14A PB_DAT_P
PB_CLK_P P7-12A 15A PB_CLK_P
16A GND
SSCLK P13-6A 17A SSCLK
PB_HSW P13-7A 18A PB_HSW
19A
EQ_CLK P11-17A 20A EQ_CLK
EVR_RF_LD_H P11-18A 21A EVR_RF_LD_H
RECI P11-19B 22A RECI
BPF_SEL P11-20B 23A BPF_SEL
SC_ADJ P3-19B 24A SC_ADJ
SC_GND P3-19C 25A SC_GND
26A GND
27A GND
28A GND
29A GND
+3.3V @xre 30A +3.3V
+5V @xre 31A +5V
GND @xre 32A GND
P15
K1KB96A00048
GND @xre 1B GND
+12V @xre 2B +12V
-12V @xre 3B -12V
+6V @xre 4B +6V
-6V @xre 5B -6V
6B GND
REC_DAT_N P7-7C 7B REC_DAT_N
REC_CLK_N P7-8B 8B REC_CLK_N
RE_CTRL_2 P7-9A 9B (RE_CTRL2)
REC_CTRL_2 P7-9C 10B REC_CTRL_2
11B GND
RP_DAT_N P7-10B 12B RP_DAT_N
RP_CLK_N P7-11A 13B RP_CLK_N
PB_DAT_N P7-11C 14B PB_DAT_N
PB_CLK_N P7-12B 15B PB_CLK_N
16B GND
SSDE P13-6B 17B SSDE
RP_HSW P13-7B, P16-21B 18B RP_HSW
19B
EQ_DATA P11-17B 20B EQ_DATA
EVR_CLK P11-18B 21B EVR_CLK
EDIT_MODE P11-19C 22B EDIT_MODE
EQ_RESET P11-20C 23B EQ_RESET
RE_CURR1 P16-23A 24B RE_CURR1
REC_CURR P16-24A 25B REC_CURR
26B GND
HAOUT_RP_P P16-26A 27B HAOUT_RP_P
HAOUT_PB_P P16-28A 28B HAOUT_PB_P
29B GND
+3.3V @xre 30B +3.3V
+5V @xre 31B +5V
GND @xre 32B GND
P15
K1KB96A00048
GND @xre 1C GND
+12V @xre 2C +12V
-12V @xre 3C -12V
+6V @xre 4C +6V
-6V @xre 5C -6V
6C GND
RDATA_P P16-16A 7C RDATA_P
RDATA_N P16-16B 8C RDATA_N
9C GND
RECMODE P16-19B 10C RECMODE
11C
12C GND
13C GND
14C GND
15C GND
REC_SPA P7-14C 16C REC_SPA
SSDATA P13-6C 17C SSDATA
PB_ENV P13-7C 18C PB_ENV
19C GND
EQ_SDE P11-17C 20C EQ_SDE
EVR_DATA P11-18C 21C EVR_DATA
POW_DOWN P11-20A 22C POW_DOWN
PB_SEL P12-2A 23C PB_SEL
RE_CURR2 P16-23B 24C RE_CURR2
REC_FREQ P16-24B 25C REC_FREQ
26C GND
HAOUT_RP_N P16-26B 27C HAOUT_RP_N
HAOUT_PB_N P16-28B 28C HAOUT_PB_N
29C GND
+3.3V @xre 30C +3.3V
+5V @xre 31C +5V
GND @xre 32C GND
F8 (RF/EQ)
P16 VJP3375A060
A NO B
GND 1 GND
GND 2 GND
OSC_ON P1-17A 3 CUE_BIAS_ON P1-17B CUE_BIAS_ON
CUE_ERASE_ON P1-17C 4 CTL_ERASE_ON P1-18A CTL_ERASE_ON
CUE_HS_REC P1-18B 5 CUE_HS_PB P1-18C CUE_HS_PB
GND 6 GND
GND 7 CUE_REC_OUT P1-19A CUE_REC_OUT
GND 8 GND
CUE_PB_GND P1-19B 9 CUE_PB_IN P1-19C CUE_PB_IN
GND @exP 10 GND @exP GND
+12V @exP 11 +12V @exP +12V
+6V @exP 12 +6V @exP +6V
-6V @exP 13 -6V @exP -6V
+5V @exP 14 +5V @exP +5V
GND 15 GND
RDATA_P P15-7C 16 RDATA_N P15-8C RDATA_N
GND 17 GND
RE_CTRL_1 P15-9A 18 RE_CTRL_2 P15-9B RE_CTRL_2
GND 19 RECMODE P15-10C RECMODE
DVCPRO_H P12-2B 20 PB_SEL P12-2A PB_SEL
PB_HSW P15-18A 21 RP_HSW P15-18B RP_HSW
GND 22 GND
RE_CURR1 P15-24B 23 RE_CURR2 P15-24C RE_CURR2
REC_CURR P15-25B 24 REC_FREQ P15-25C REC_FREQ
GND 25 GND
HAOUT_RP_P P15-27B 26 HAOUT_RP_N P15-27C HAOUT_RP_N
GND 27 GND
HAOUT_PB_P P15-28B 28 HAOUT_PB_N P15-28C HAOUT_PB_N
GND 29 GND
GND 30 GND
HEAD_BUFF (RF/CUE)
COMPONENT NAME
MOTHER
08/10
CIRCUIT BOARD NO.
VEP80C14A
DRAWING NO.
KR0Q24 (8/10)
SCM126
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

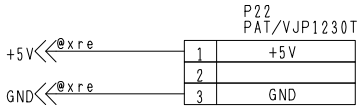
MECHA_IF

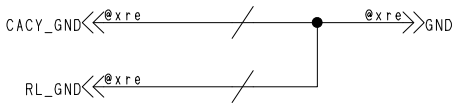


POWER





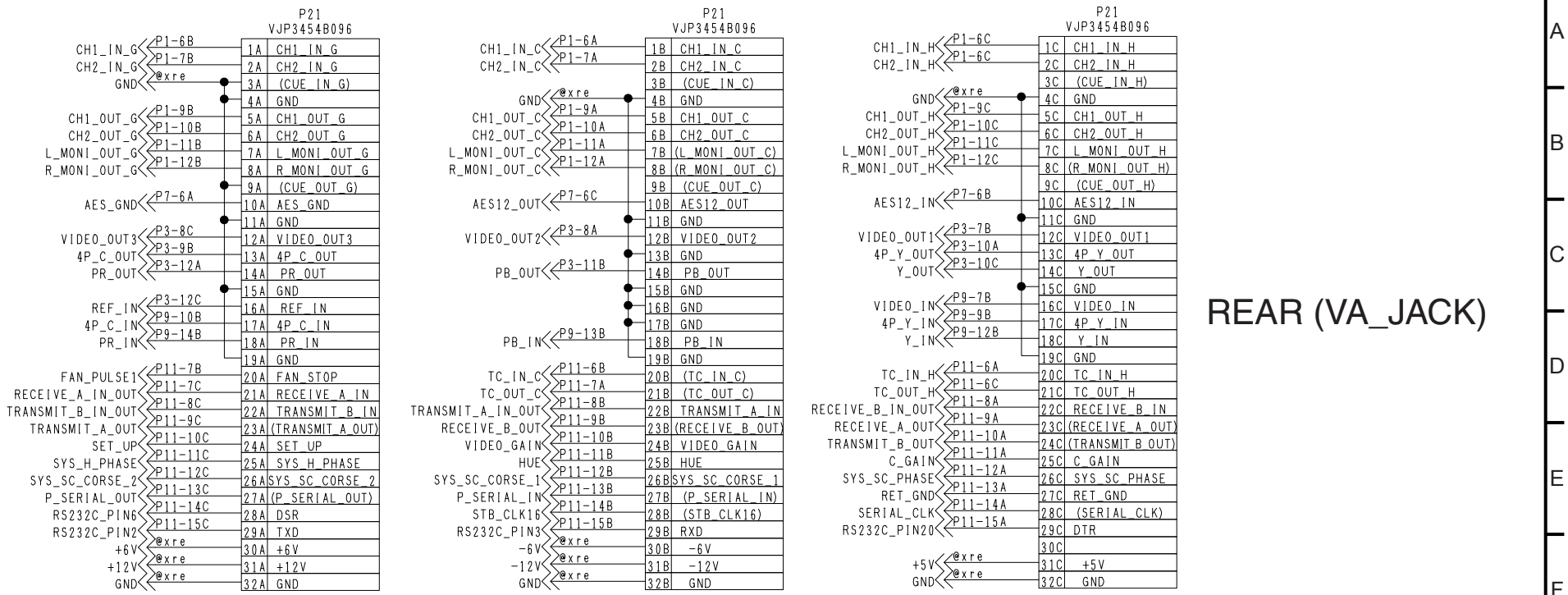




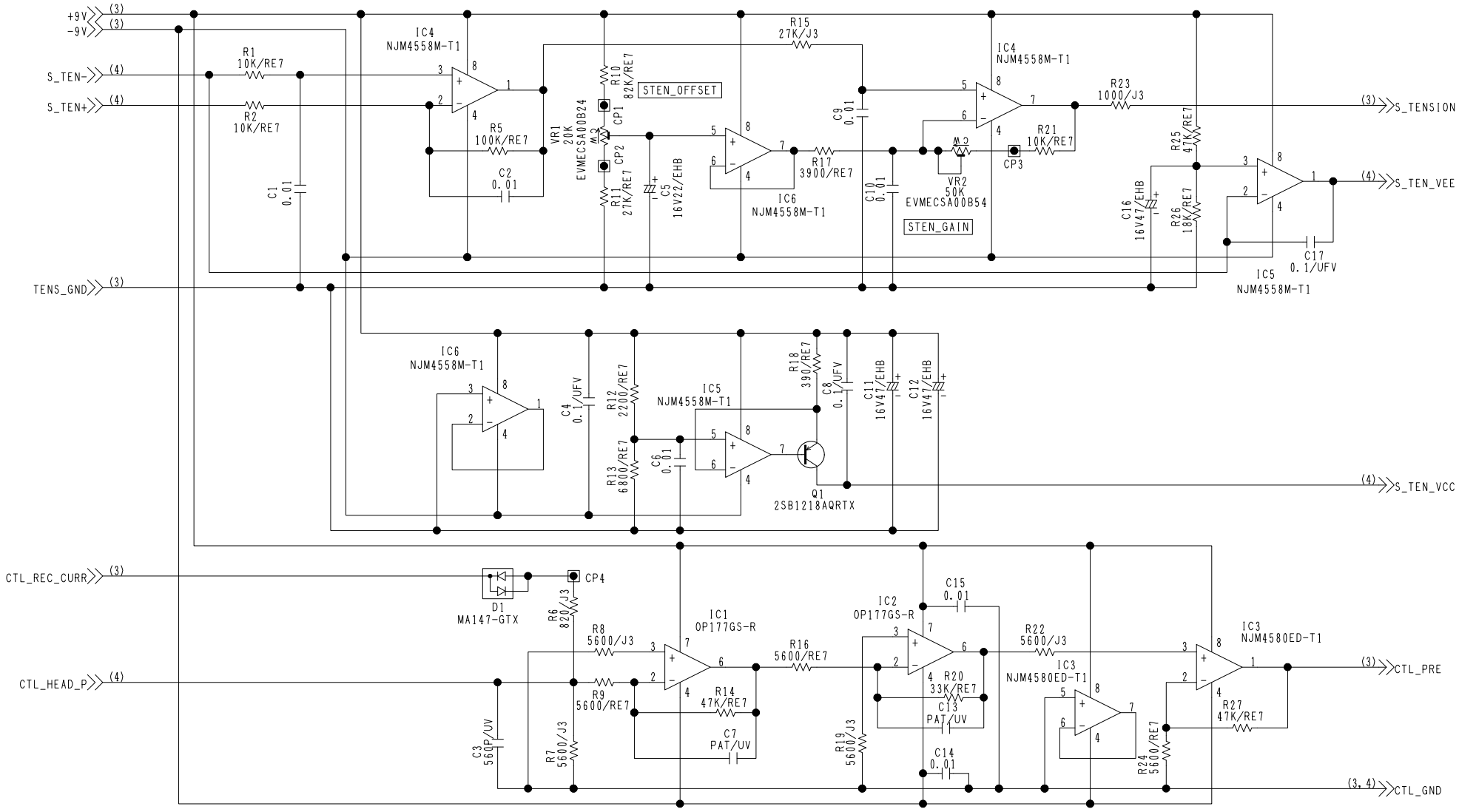
COMPONENT NAME	MOTHER	09/10
CIRCUIT BOARD NO.		DRAWING NO.
VEP80C14A		KR0Q24 (9/10)
		SCM127

A B C D E F G H I J

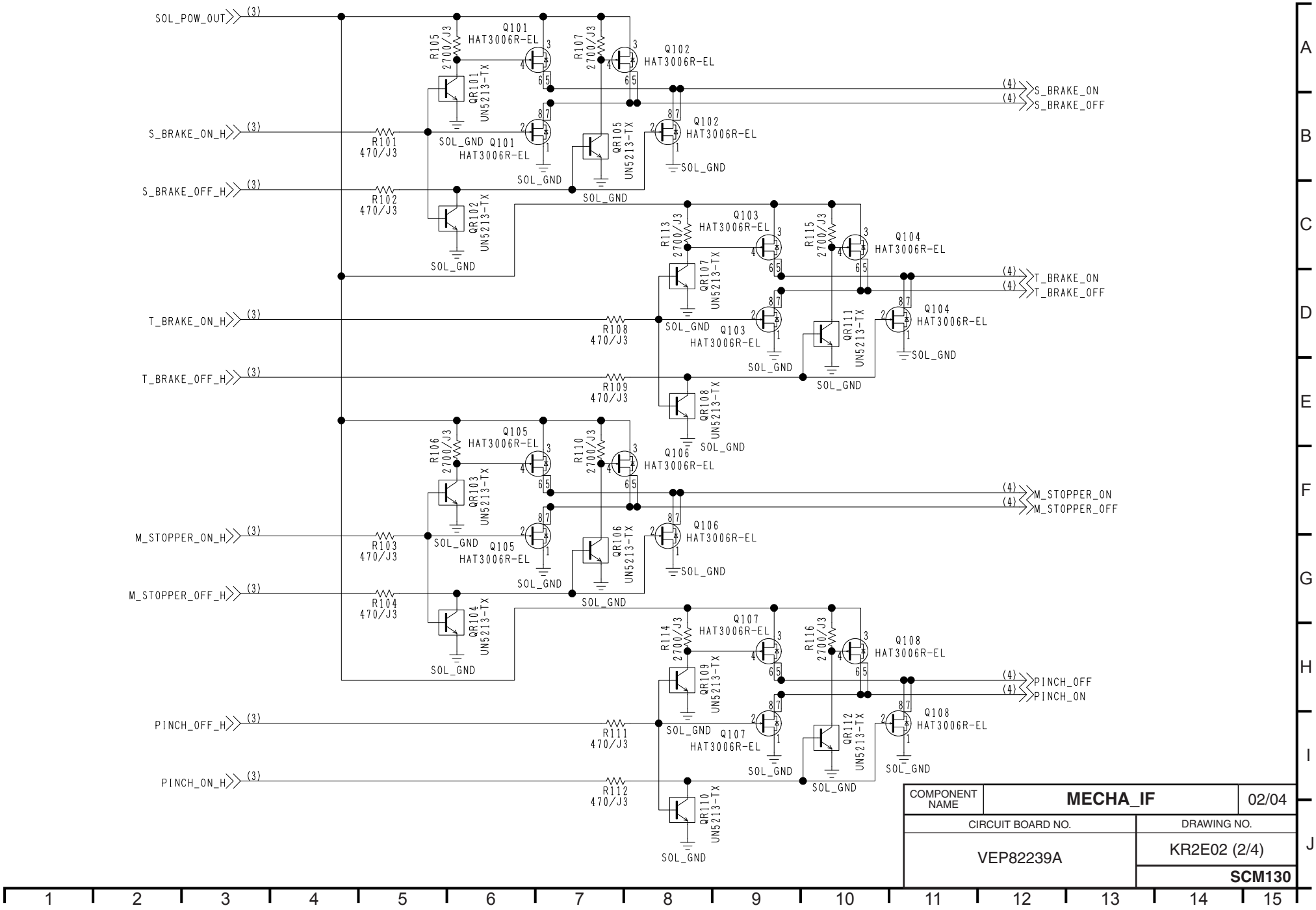
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



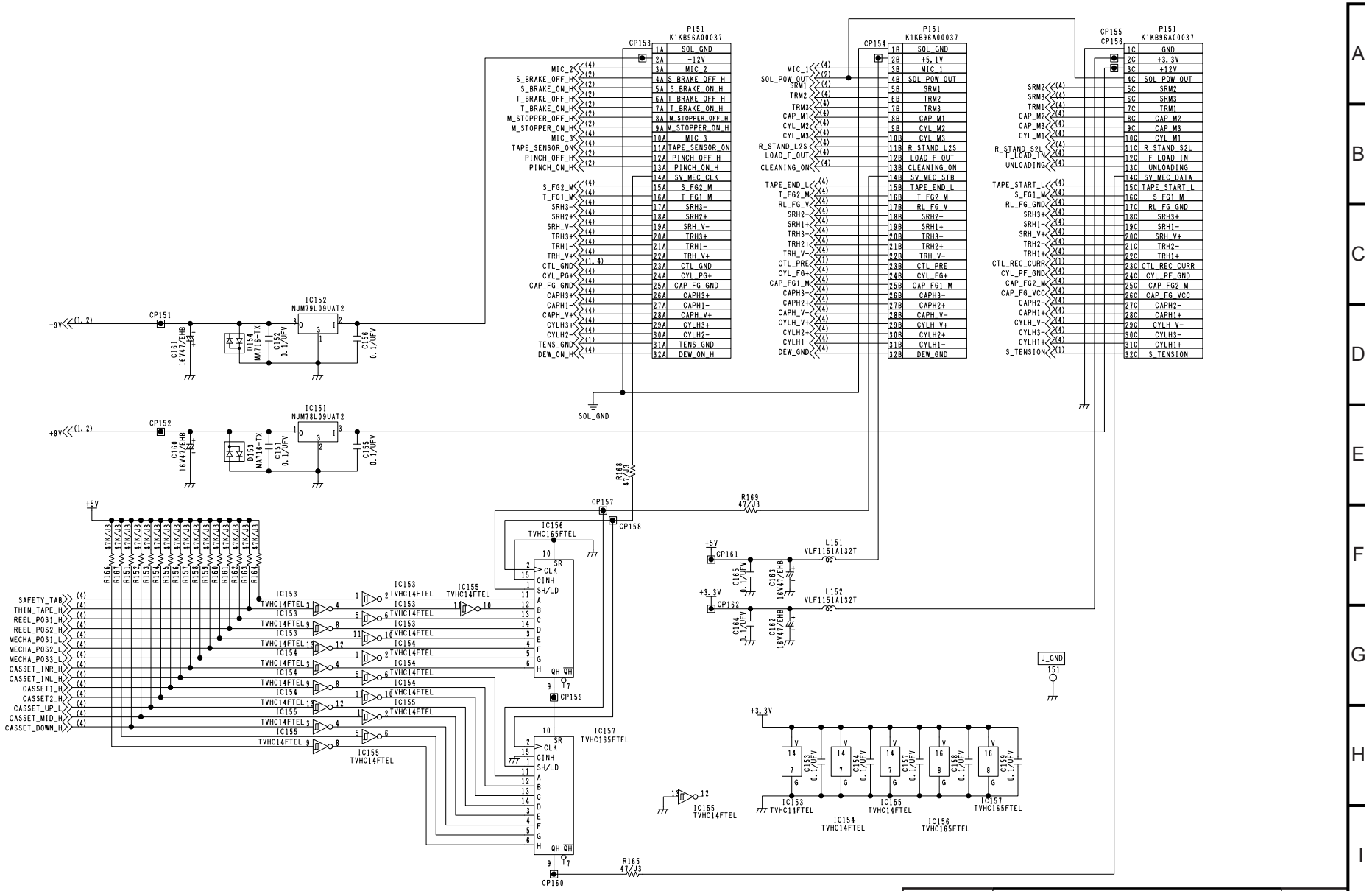
COMPONENT NAME	**MOTHER**	10/10
CIRCUIT BOARD NO.		DRAWING NO.
VEP80C14A		KR0Q24 (10/10)
		SCM128



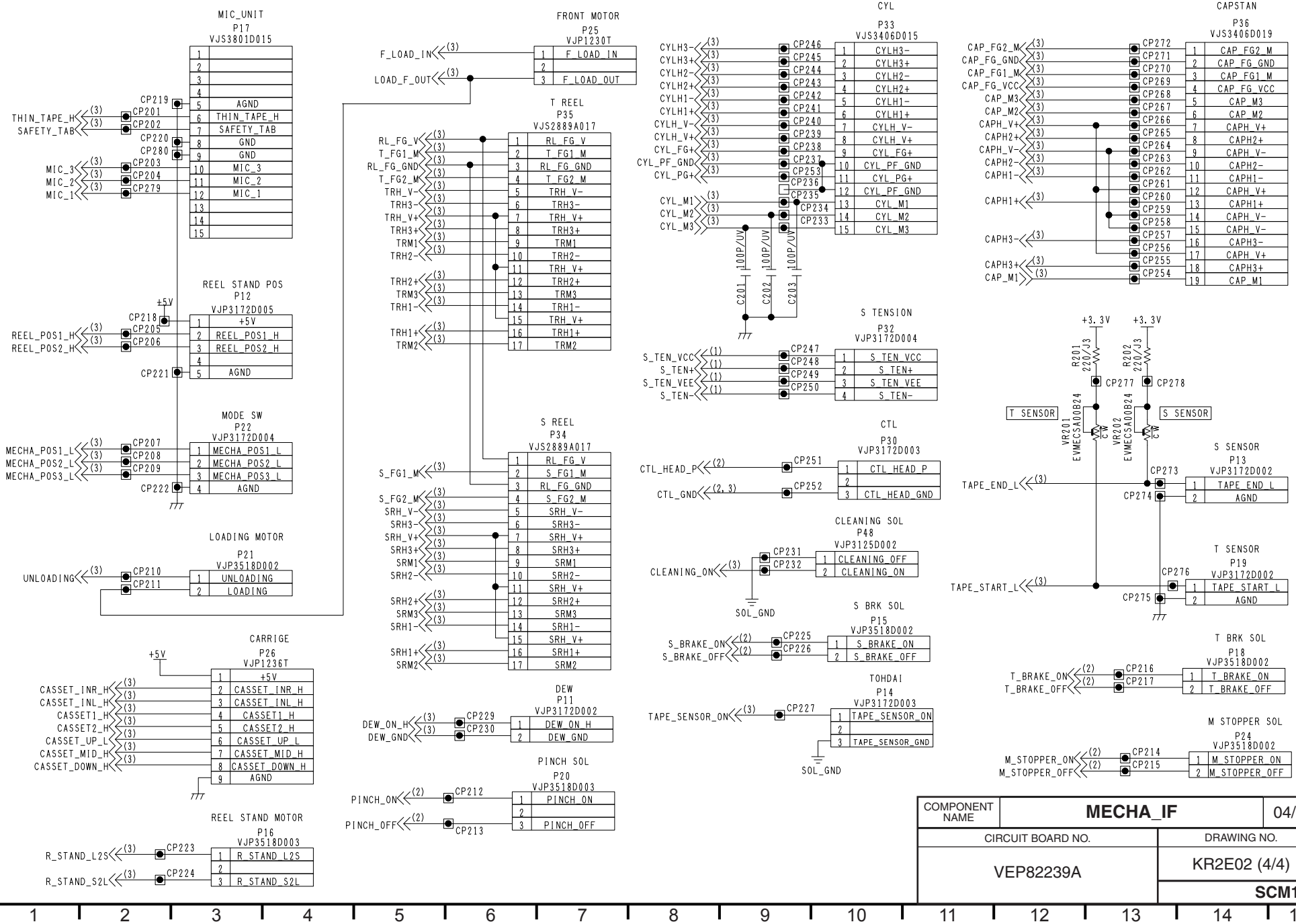
COMPONENT NAME	MECHA_IF	01/04
CIRCUIT BOARD NO.		DRAWING NO.
VEP82239A		KR2E02 (1/4)
		SCM129

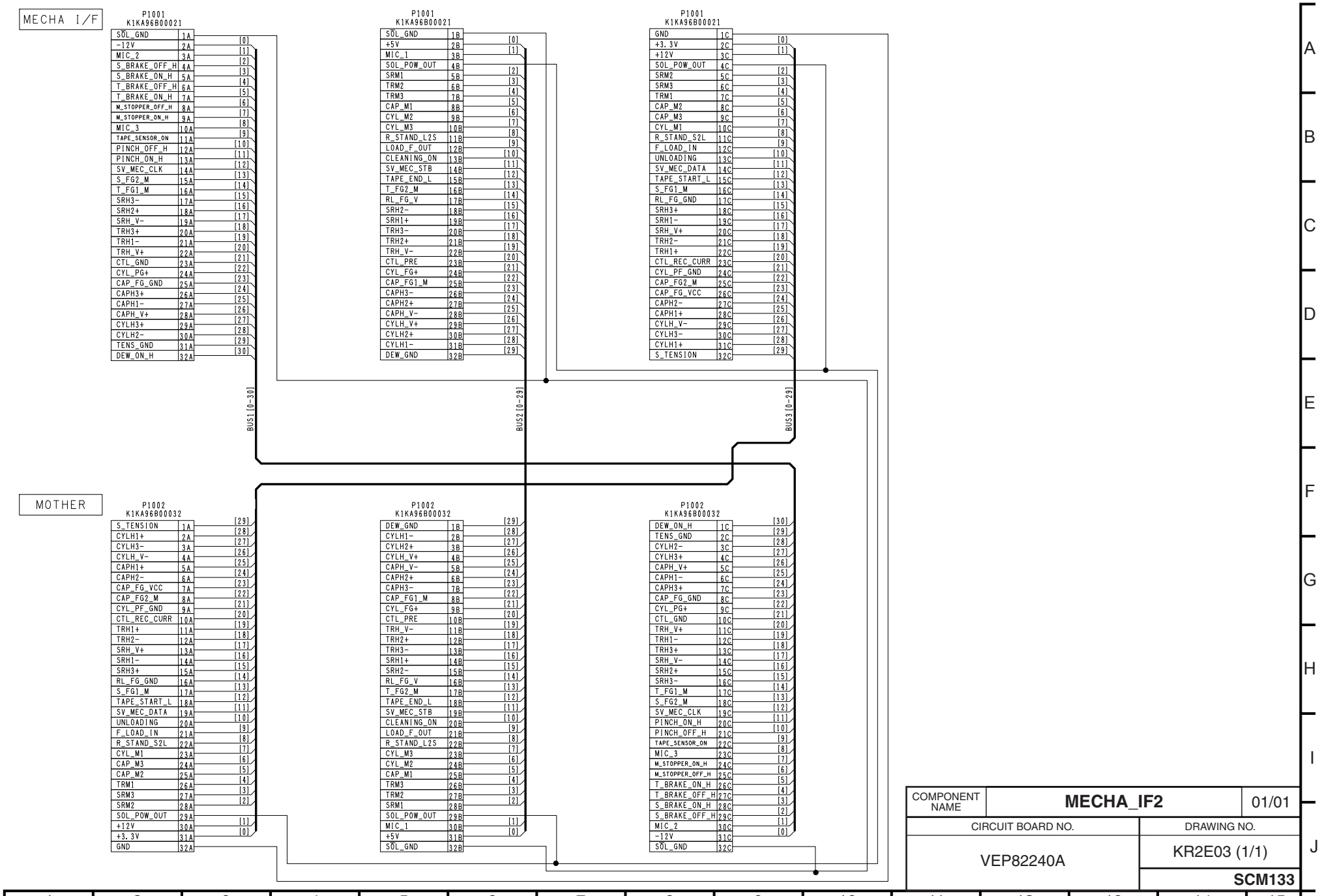


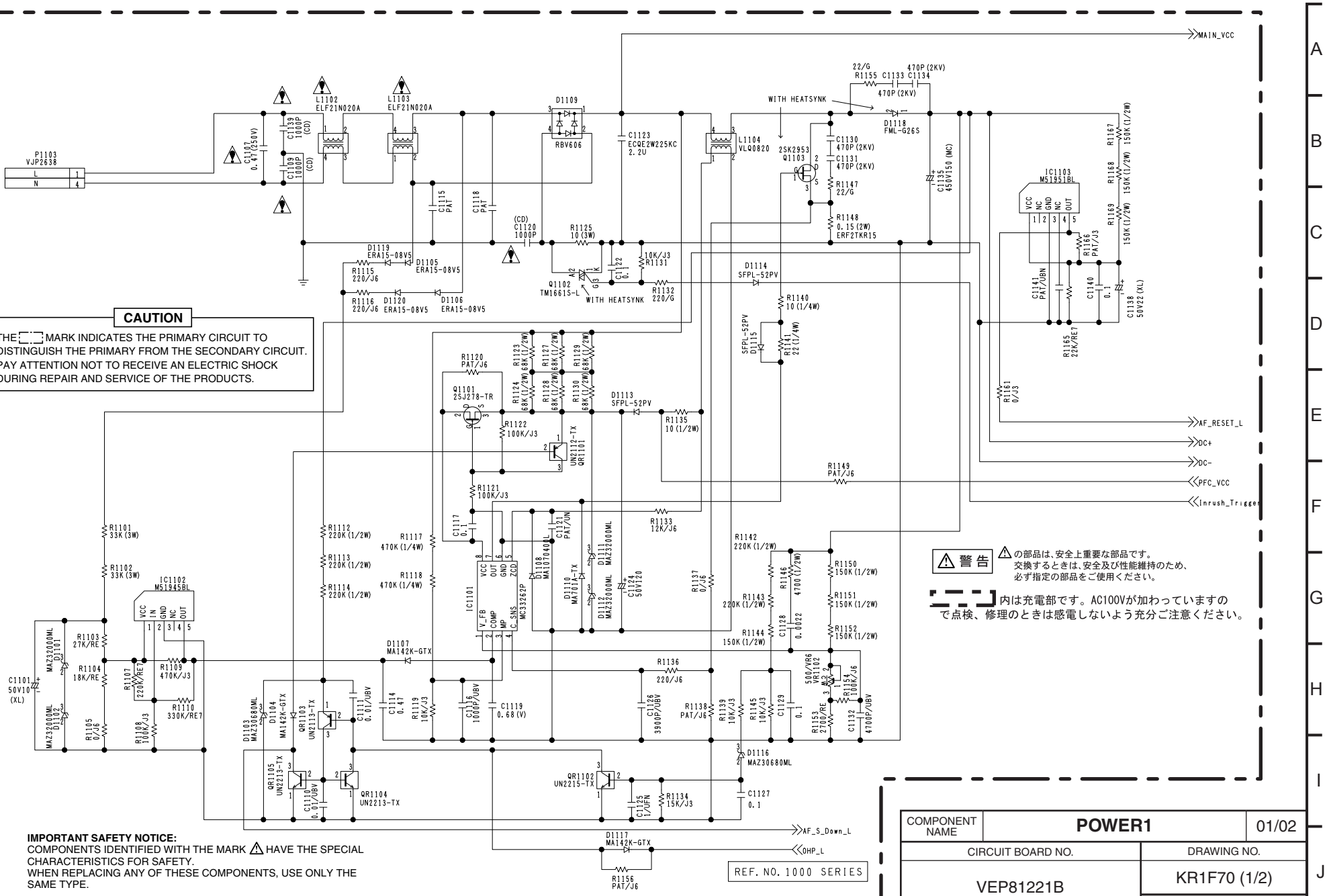
COMPONENT NAME	MECHA_IF	02/04
CIRCUIT BOARD NO.		DRAWING NO.
VEP82239A		KR2E02 (2/4)
		SCM130



COMPONENT NAME	**MECHA_IF**	03/04
CIRCUIT BOARD NO.		DRAWING NO.
VEP82239A		KR2E02 (3/4)
		SCM131


MIC_UNIT
P17
VJS3801D015
1 2 3 4 5 AGND 6 THIN_TAPE_H 7 SAFETY_TAB 8 GND 9 GND 10 MIC_3 11 MIC_2 12 MIC_1 13 14 15
CP219 CP201 CP202 CP220 CP280 CP203 CP204 CP279
THIN_TAPE_H SAFETY_TAB MIC_3 MIC_2 MIC_1
REEL STAND POS
P12
VJP3172D005
+5V
1 +5V 2 REEL_POS1_H 3 REEL_POS2_H 4 5 AGND
CP218 CP205 CP206 CP221
REEL_POS1_H REEL_POS2_H
MODE SW
P22
VJP3172D004
1 MECHA_POS1_L 2 MECHA_POS2_L 3 MECHA_POS3_L 4 AGND
CP207 CP208 CP209 CP222
MECHA_POS1_L MECHA_POS2_L MECHA_POS3_L
LOADING MOTOR
P21
VJP3518D002
1 UNLOADING 2 LOADING
CP210 CP211
UNLOADING
CARRIGE
P26
VJP1236T
+5V
1 +5V 2 CASSET_INR_H 3 CASSET_INL_H 4 CASSET1_H 5 CASSET2_H 6 CASSET_UP_L 7 CASSET_MID_H 8 CASSET_DOWN_H 9 AGND
CASSET_INR_H CASSET_INL_H CASSET1_H CASSET2_H CASSET_UP_L CASSET_MID_H CASSET_DOWN_H
REEL STAND MOTOR
P16
VJP3518D003
1 R_STAND_L2S 2 3 R_STAND_S2L
CP223 CP224
R_STAND_L2S R_STAND_S2L
FRONT MOTOR
P25
VJP1230T
1 F_LOAD_IN 2 3 F_LOAD_OUT
F_LOAD_IN LOAD_F_OUT
T REEL
P35
VJS2889A017
1 RL_FG_V 2 T_FG1_M 3 RL_FG_GND 4 T_FG2_M 5 TRH_V- 6 TRH3- 7 TRH_V+ 8 TRH3+ 9 TRM1 10 TRH2- 11 TRH_V+ 12 TRH2+ 13 TRM3 14 TRH1- 15 TRH_V+ 16 TRH1+ 17 TRM2
RL_FG_V T_FG1_M RL_FG_GND T_FG2_M TRH_V- TRH3- TRH_V+ TRH3+ TRM1 TRH2- TRH2+ TRM3 TRH1- TRH1+ TRM2
S REEL
P34
VJS2889A017
1 RL_FG_V 2 S_FG1_M 3 RL_FG_GND 4 S_FG2_M 5 SRH_V- 6 SRH3- 7 SRH_V+ 8 SRH3+ 9 SRM1 10 SRH2- 11 SRH_V+ 12 SRH2+ 13 SRM3 14 SRH1- 15 SRH_V+ 16 SRH1+ 17 SRM2
S_FG1_M S_FG2_M SRH_V- SRH3- SRH_V+ SRH3+ SRM1 SRH2- SRH2+ SRM3 SRH1- SRH1+ SRM2
DEW
P11
VJP3172D002
1 DEW_ON_H 2 DEW_GND
CP229 CP230
DEW_ON_H DEW_GND
PINCH SOL
P20
VJP3518D003
1 PINCH_ON 2 3 PINCH_OFF
CP212 CP213
PINCH_ON PINCH_OFF
CYL
P33
VJS3406D015
1 CYLH3- 2 CYLH3+ 3 CYLH2- 4 CYLH2+ 5 CYLH1- 6 CYLH1+ 7 CYLH_V- 8 CYLH_V+ 9 CYL_FG+ 10 CYL_PF_GND 11 CYL_PG+ 12 CYL_PF_GND 13 CYL_M1 14 CYL_M2 15 CYL_M3
CP246 CP245 CP244 CP243 CP242 CP241 CP240 CP239 CP238 CP237 CP253 CP236 CP235 CP234 CP233
CYLH3- CYLH3+ CYLH2- CYLH2+ CYLH1- CYLH1+ CYLH_V- CYLH_V+ CYL_FG+ CYL_PF_GND CYL_PG+
CYL_M1 CYL_M2 CYL_M3
100P/UV 100P/UV 100P/UV
C201 C202 C203
S TENSION
P32
VJP3172D004
1 S_TEN_VCC 2 S_TEN+ 3 S_TEN_VEE 4 S_TEN-
CP247 CP248 CP249 CP250
S_TEN_VCC S_TEN+ S_TEN_VEE S_TEN-
CTL
P30
VJP3172D003
1 CTL_HEAD_P 2 3 CTL_HEAD_GND
CP251 CP252
CTL_HEAD_P CTL_GND
CLEANING SOL
P48
VJP3125D002
1 CLEANING_OFF 2 CLEANING_ON
CP231 CP232
CLEANING_ON SOL_GND
S BRK SOL
P15
VJP3518D002
1 S_BRAKE_ON 2 S_BRAKE_OFF
CP225 CP226
S_BRAKE_ON S_BRAKE_OFF
TOHDAI
P14
VJP3172D003
1 TAPE_SENSOR_ON 2 3 TAPE_SENSOR_GND
CP227
TAPE_SENSOR_ON SOL_GND
CAPSTAN
P36
VJS3406D019
1 CAP_FG2_M 2 CAP_FG_GND 3 CAP_FG1_M 4 CAP_FG_VCC 5 CAP_M3 6 CAP_M2 7 CAPH_V+ 8 CAPH2+ 9 CAPH_V- 10 CAPH2- 11 CAPH1- 12 CAPH_V+ 13 CAPH1+ 14 CAPH_V- 15 CAPH_V- 16 CAPH3- 17 CAPH_V+ 18 CAPH3+ 19 CAP_M1
CP272 CP271 CP270 CP269 CP268 CP267 CP266 CP265 CP264 CP263 CP262 CP261 CP260 CP259 CP258 CP257 CP256 CP255 CP254
CAP_FG2_M CAP_FG_GND CAP_FG1_M CAP_FG_VCC CAP_M3 CAP_M2 CAPH_V+ CAPH2+ CAPH_V- CAPH2- CAPH1- CAPH1+ CAPH3- CAPH3+ CAP_M1
+3.3V +3.3V
R201 220/J3 R202 220/J3
CP277 CP278
T SENSOR S SENSOR
VR201 EVMECSA00B24 VR202 EVMECSA00B24
S SENSOR
P13
VJP3172D002
1 TAPE_END_L 2 AGND
CP273 CP274
TAPE_END_L
T SENSOR
P19
VJP3172D002
1 TAPE_START_L 2 AGND
CP276 CP275
TAPE_START_L
T BRK SOL
P18
VJP3518D002
1 T_BRAKE_ON 2 T_BRAKE_OFF
CP216 CP217
T_BRAKE_ON T_BRAKE_OFF
M STOPPER SOL
P24
VJP3518D002
1 M_STOPPER_ON 2 M_STOPPER_OFF
CP214 CP215
M_STOPPER_ON M_STOPPER_OFF
COMPONENT NAME
MECHA_IF
04/04
CIRCUIT BOARD NO.
VEP82239A
DRAWING NO.
KR2E02 (4/4)
SCM132
A B C D E F G H I J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

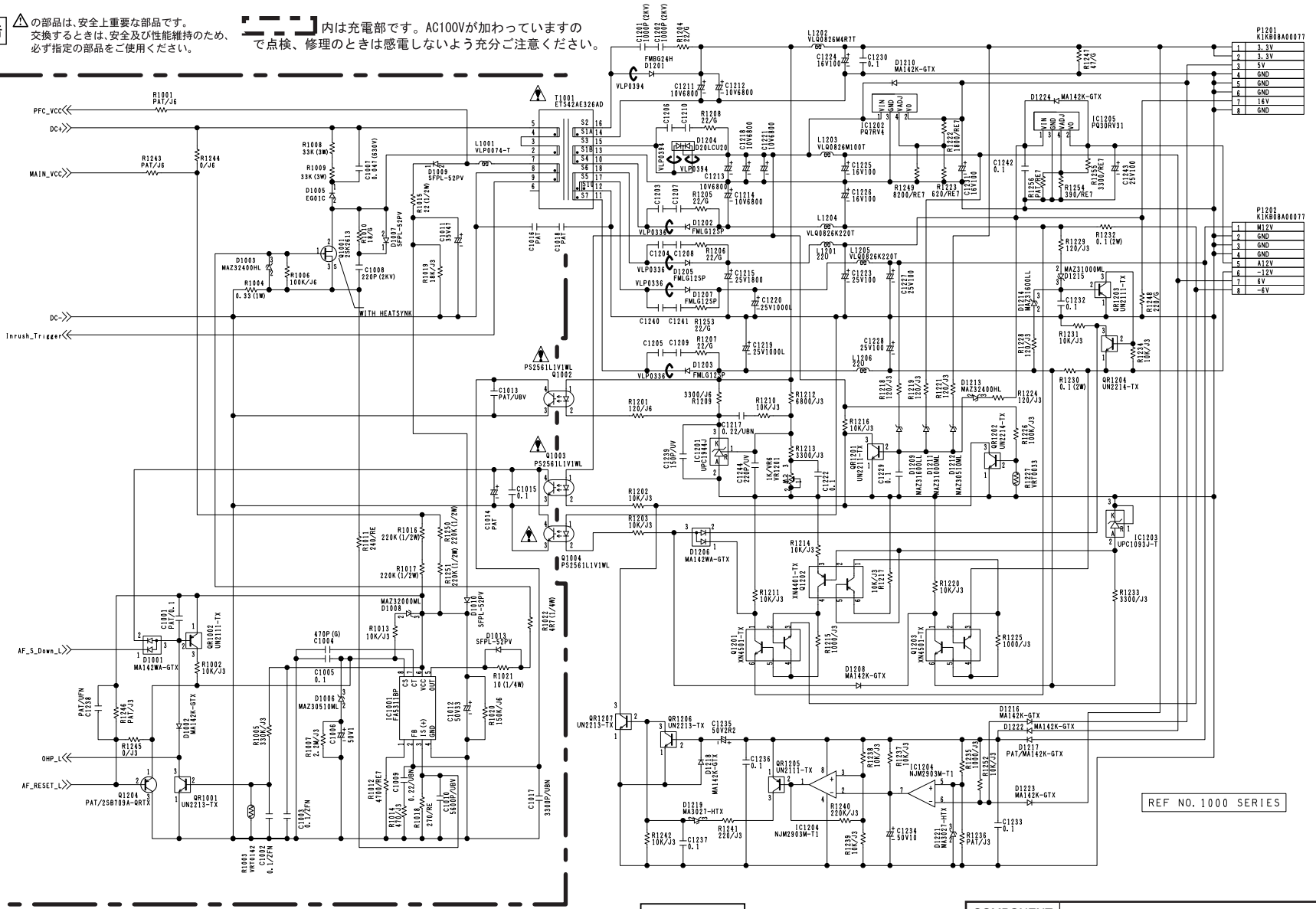

MECHA I/F
MOTHER
P1001
K1KA96B00021
SOL_GND 1A
-12V 2A
MIC_2 3A
S_BRAKE_OFF_H 4A
S_BRAKE_ON_H 5A
T_BRAKE_OFF_H 6A
T_BRAKE_ON_H 7A
M_STOPPER_OFF_H 8A
M_STOPPER_ON_H 9A
MIC_3 10A
TAPE_SENSOR_ON 11A
PINCH_OFF_H 12A
PINCH_ON_H 13A
SV_MEC_CLK 14A
S_FG2_M 15A
T_FG1_M 16A
SRH3- 17A
SRH2+ 18A
SRH_V- 19A
TRH3+ 20A
TRH1- 21A
TRH_V+ 22A
CTL_GND 23A
CYL_PG+ 24A
CAP_FG_GND 25A
CAPH3+ 26A
CAPH1- 27A
CAPH_V+ 28A
CYLH3+ 29A
CYLH2- 30A
TENS_GND 31A
DEW_ON_H 32A
P1001
K1KA96B00021
SOL_GND 1B
+5V 2B
MIC_1 3B
SOL_POW_OUT 4B
SRM1 5B
TRM2 6B
TRM3 7B
CAP_M1 8B
CYL_M2 9B
CYL_M3 10B
R_STAND_L2S 11B
LOAD_F_OUT 12B
CLEANING_ON 13B
SV_MEC_STB 14B
TAPE_END_L 15B
T_FG2_M 16B
RL_FG_V 17B
SRH2- 18B
SRH1+ 19B
TRH3- 20B
TRH2+ 21B
TRH_V- 22B
CTL_PRE 23B
CYL_FG+ 24B
CAP_FG1_M 25B
CAPH3- 26B
CAPH2+ 27B
CAPH_V- 28B
CYLH_V+ 29B
CYLH2+ 30B
CYLH1- 31B
DEW_GND 32B
P1001
K1KA96B00021
GND 1C
+3.3V 2C
+12V 3C
SOL_POW_OUT 4C
SRM2 5C
SRM3 6C
TRM1 7C
CAP_M2 8C
CAP_M3 9C
CYL_M1 10C
R_STAND_S2L 11C
F_LOAD_IN 12C
UNLOADING 13C
SV_MEC_DATA 14C
TAPE_START_L 15C
S_FG1_M 16C
RL_FG_GND 17C
SRH3+ 18C
SRH1- 19C
SRH_V+ 20C
TRH2- 21C
TRH1+ 22C
CTL_REC_CURR 23C
CYL_PF_GND 24C
CAP_FG2_M 25C
CAP_FG_VCC 26C
CAPH2- 27C
CAPH1+ 28C
CYLH_V- 29C
CYLH3- 30C
CYLH1+ 31C
S_TENSION 32C
BUS1 [0-30]
BUS2 [0-29]
BUS3 [0-29]
P1002
K1KA96B00032
S_TENSION 1A
CYLH1+ 2A
CYLH3- 3A
CYLH_V- 4A
CAPH1+ 5A
CAPH2- 6A
CAP_FG_VCC 7A
CAP_FG2_M 8A
CYL_PF_GND 9A
CTL_REC_CURR 10A
TRH1+ 11A
TRH2- 12A
SRH_V+ 13A
SRH1- 14A
SRH3+ 15A
RL_FG_GND 16A
S_FG1_M 17A
TAPE_START_L 18A
SV_MEC_DATA 19A
UNLOADING 20A
F_LOAD_IN 21A
R_STAND_S2L 22A
CYL_M1 23A
CAP_M3 24A
CAP_M2 25A
TRM1 26A
SRM3 27A
SRM2 28A
SOL_POW_OUT 29A
+12V 30A
+3.3V 31A
GND 32A
P1002
K1KA96B00032
DEW_GND 1B
CYLH1- 2B
CYLH2+ 3B
CYLH_V+ 4B
CAPH_V- 5B
CAPH2+ 6B
CAPH3- 7B
CAP_FG1_M 8B
CYL_FG+ 9B
CTL_PRE 10B
TRH_V- 11B
TRH2+ 12B
TRH3- 13B
SRH1+ 14B
SRH2- 15B
RL_FG_V 16B
T_FG2_M 17B
TAPE_END_L 18B
SV_MEC_STB 19B
CLEANING_ON 20B
LOAD_F_OUT 21B
R_STAND_L2S 22B
CYL_M3 23B
CYL_M2 24B
CAP_M1 25B
TRM3 26B
TRM2 27B
SRM1 28B
SOL_POW_OUT 29B
MIC_1 30B
+5V 31B
SOL_GND 32B
P1002
K1KA96B00032
DEW_ON_H 1C
TENS_GND 2C
CYLH2- 3C
CYLH3+ 4C
CAPH_V+ 5C
CAPH1- 6C
CAPH3+ 7C
CAP_FG_GND 8C
CYL_PG+ 9C
CTL_GND 10C
TRH_V+ 11C
TRH1- 12C
TRH3+ 13C
SRH_V- 14C
SRH2+ 15C
SRH3- 16C
T_FG1_M 17C
S_FG2_M 18C
SV_MEC_CLK 19C
PINCH_ON_H 20C
PINCH_OFF_H 21C
TAPE_SENSOR_ON 22C
MIC_3 23C
M_STOPPER_ON_H 24C
M_STOPPER_OFF_H 25C
T_BRAKE_ON_H 26C
T_BRAKE_OFF_H 27C
S_BRAKE_ON_H 28C
S_BRAKE_OFF_H 29C
MIC_2 30C
-12V 31C
SOL_GND 32C
COMPONENT NAME
MECHA_IF2
01/01
CIRCUIT BOARD NO.
VEP82240A
DRAWING NO.
KR2E03 (1/1)
SCM133
A
B
C
D
E
F
G
H
I
J
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



COMPONENT NAME	POWER1	01/02
CIRCUIT BOARD NO.		DRAWING NO.
VEP81221B		KR1F70 (1/2)
		SCM134

⚠ 警 告 ⚠の部品は、安全上重要な部品です。
交換するときは、安全及び性能維持のため、
必ず指定の部品をご使用ください。

内は充電部です。AC100Vが加わっていますので点検、修理のときは感電しないよう充分ご注意ください。

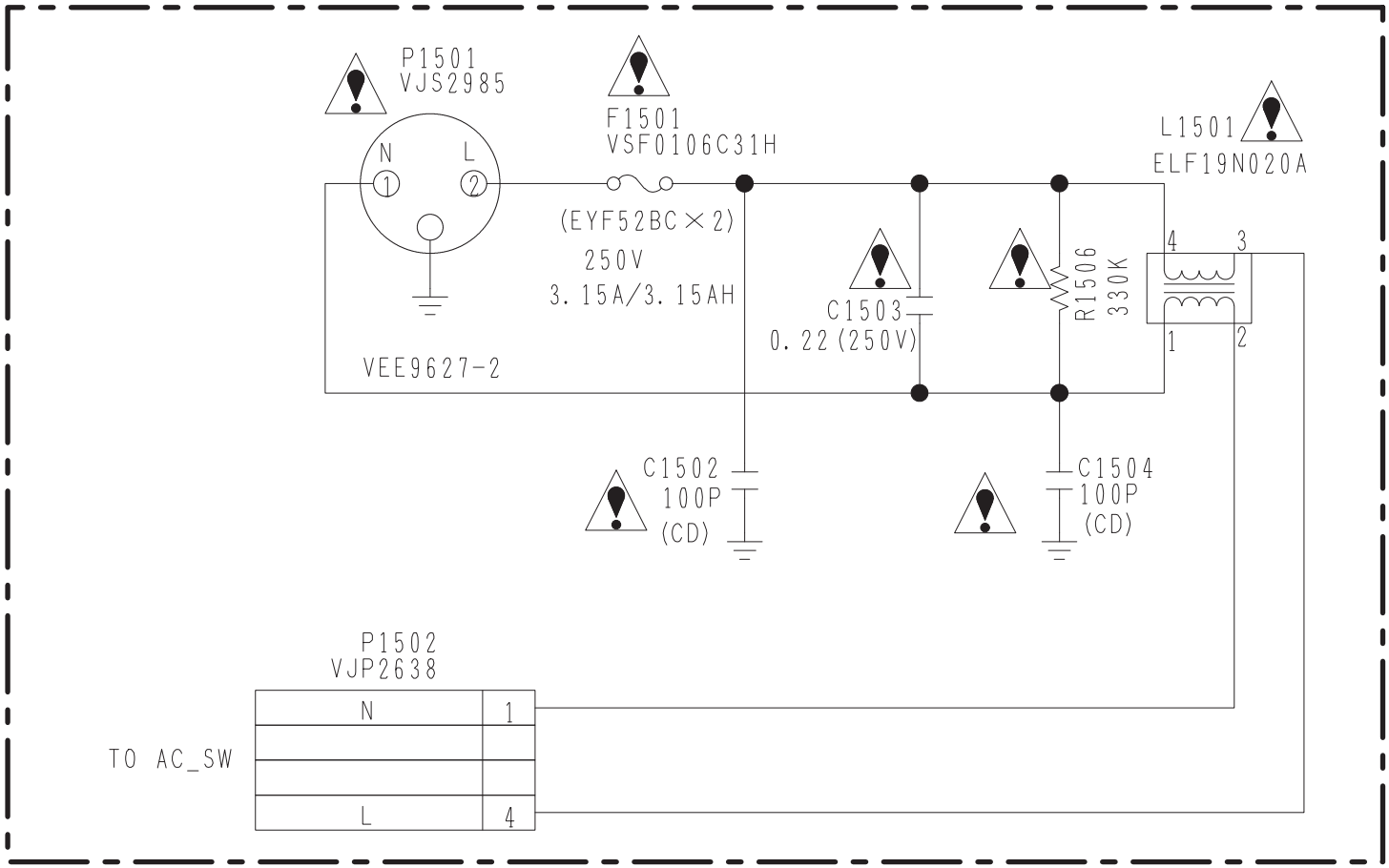


IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

CAUTION

THE MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

COMPONENT NAME	POWER1	02/02
CIRCUIT BOARD NO.		DRAWING NO.
VEP81221B		KR1F70 (2/2)
		SCM135



⚠ 警告 ⚠の部品は、安全上重要な部品です。
交換するときは、安全及び性能維持のため、
必ず指定の部品をご使用ください。

内は充電部です。AC100Vが加わっていますの
で点検、修理のときは感電しないよう充分ご注意ください。

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

CAUTION

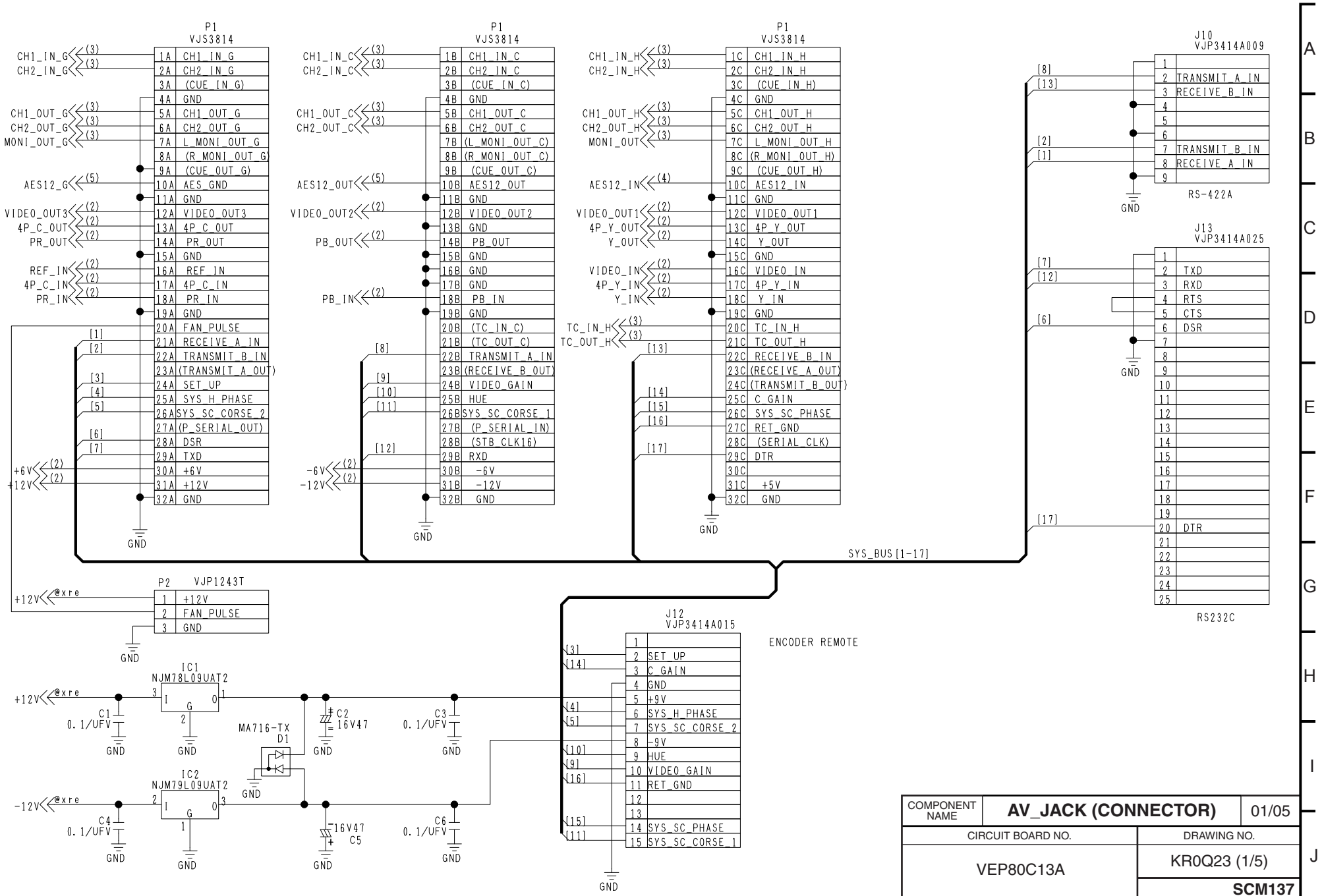
THE MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT. PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

REF. NO. 1500 SERIES

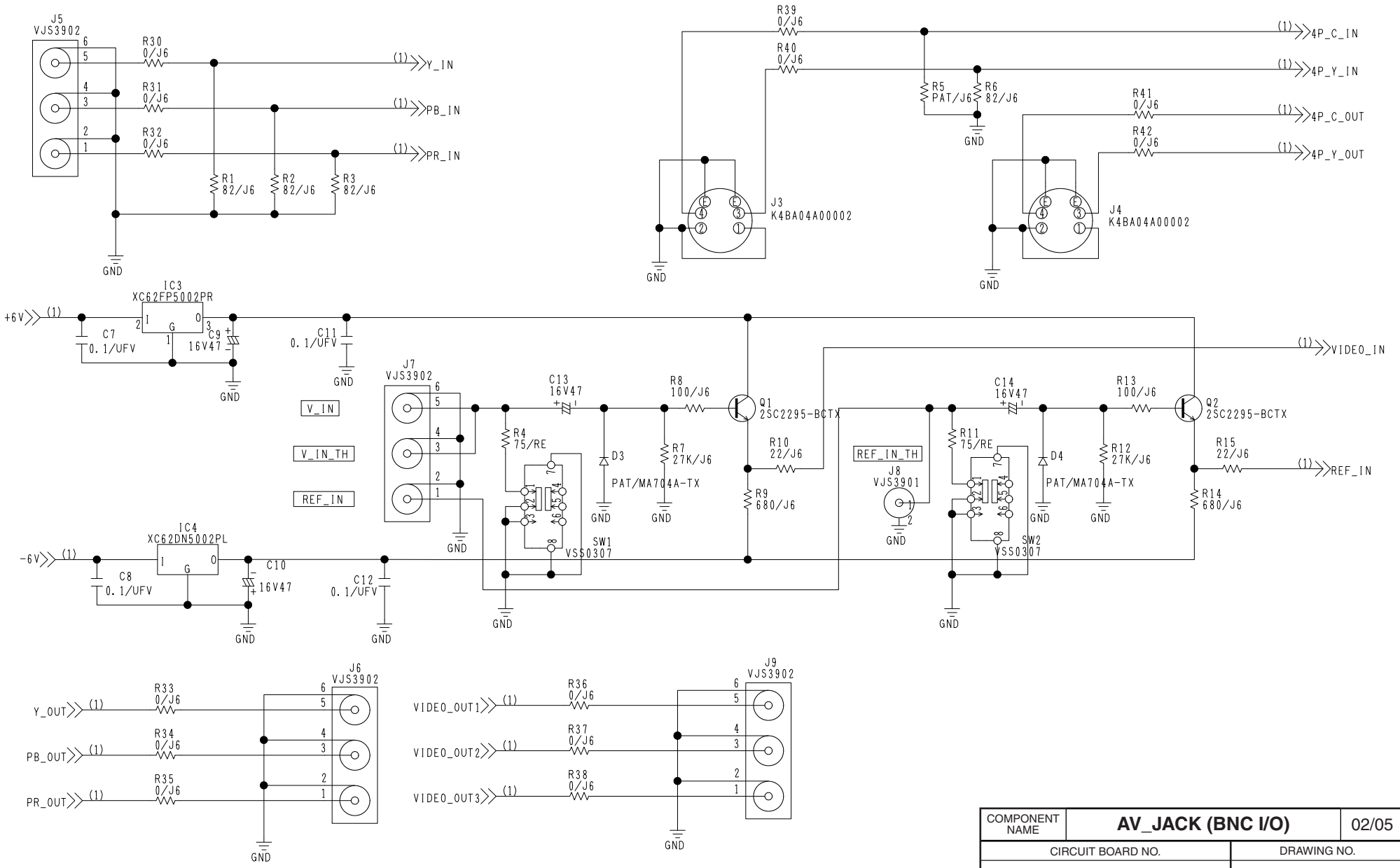
COMPONENT NAME	POWER2	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP81222A		KR1E86 (1/1)
		SCM136

A B C D E F G H I J

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

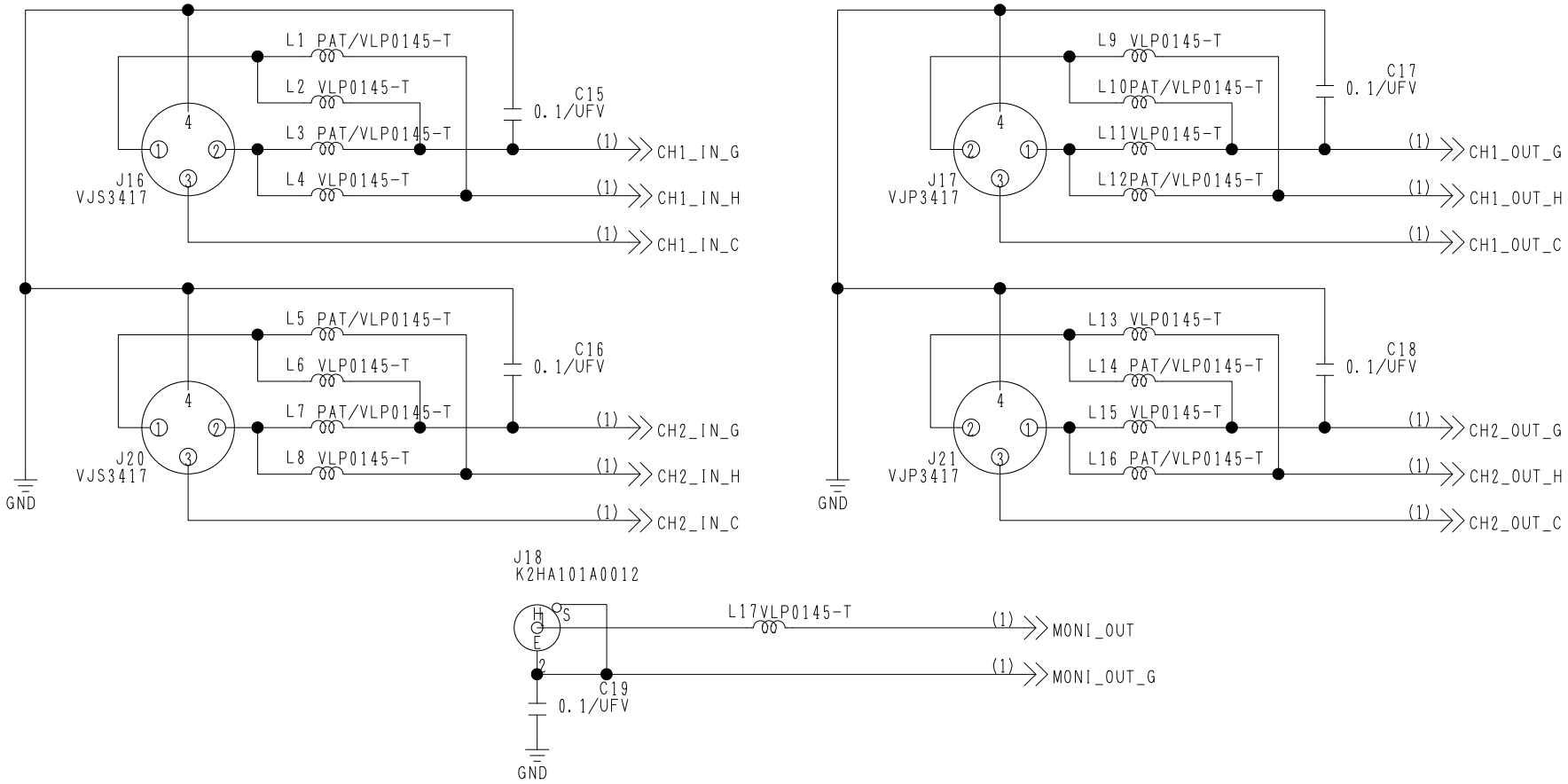


COMPONENT NAME	AV_JACK (CONNECTOR)	01/05
CIRCUIT BOARD NO.		DRAWING NO.
VEP80C13A		KR0Q23 (1/5)
		SCM137



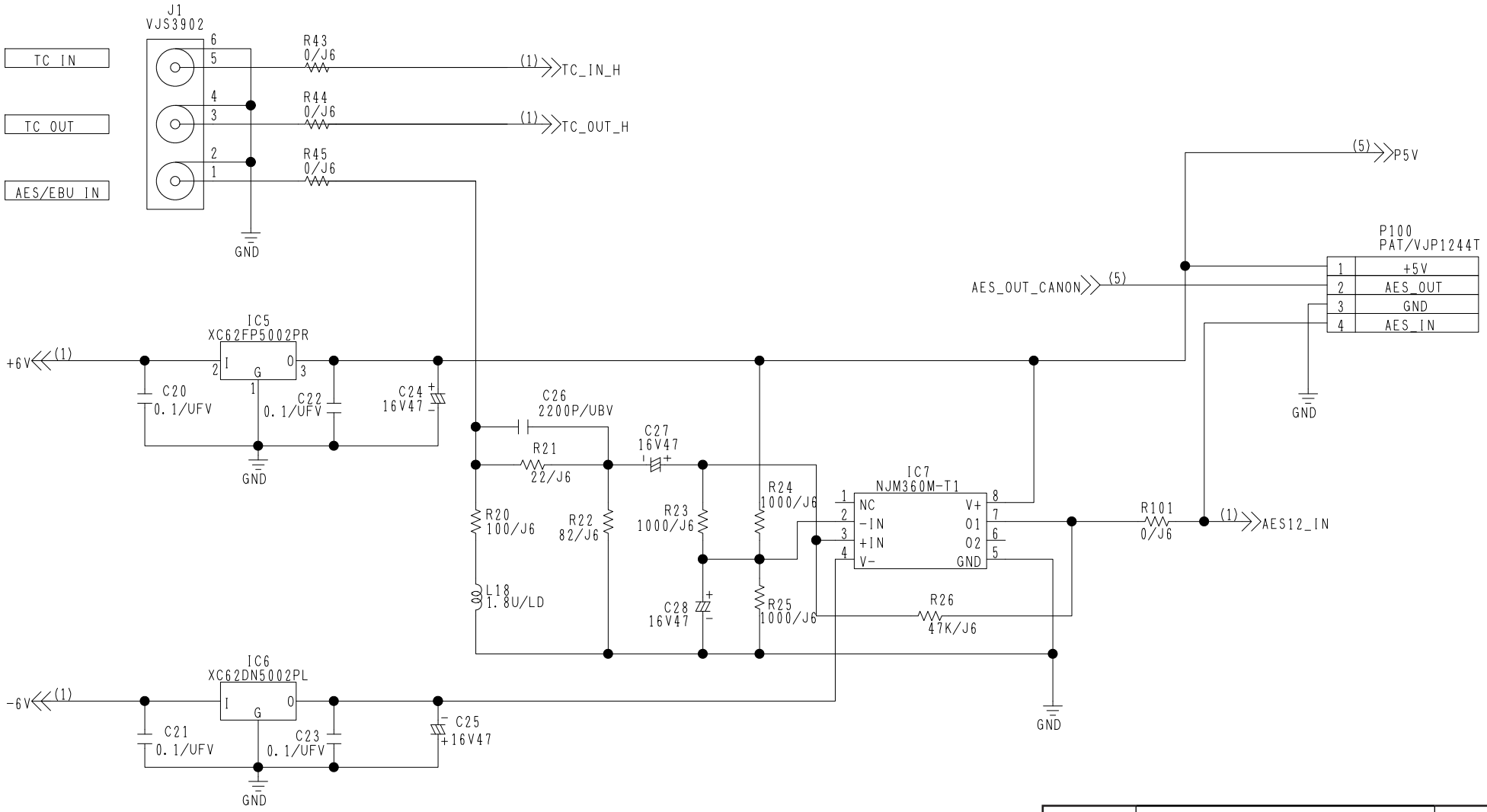
COMPONENT NAME	AV_JACK (BNC I/O)	02/05
CIRCUIT BOARD NO.		DRAWING NO.
VEP80C13A		KR0Q23 (2/5)
		SCM138

For OVER SEAS

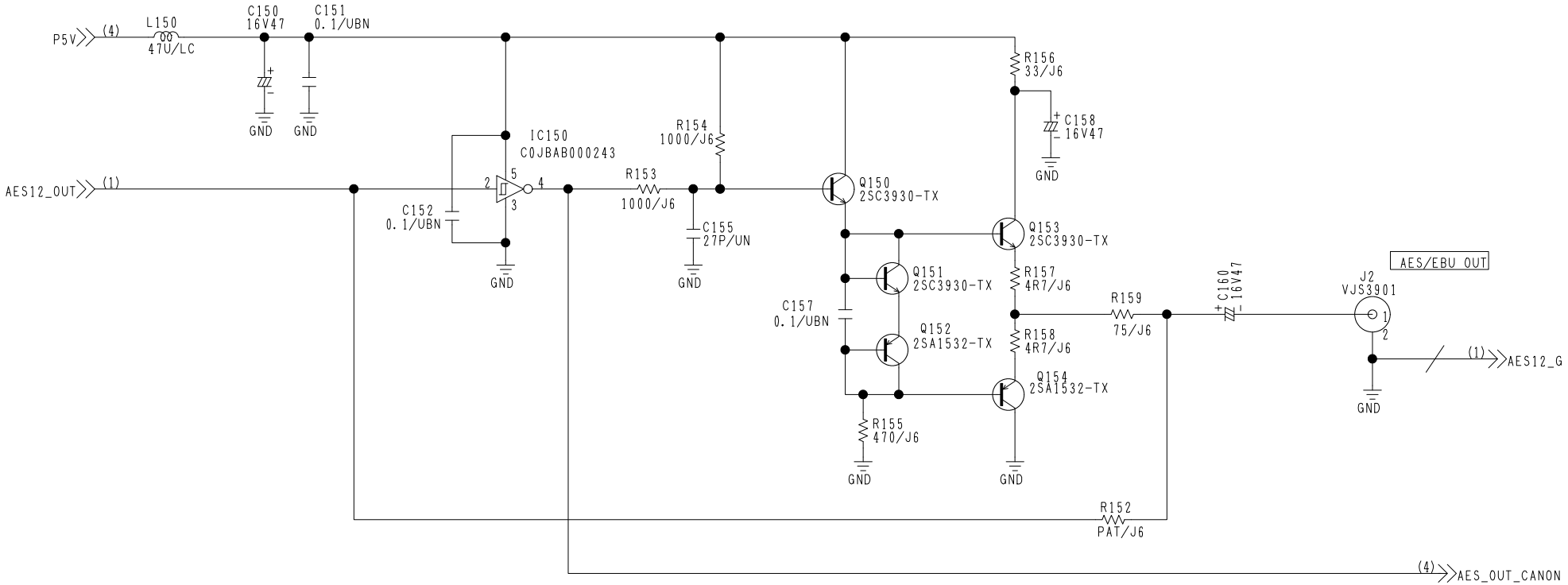


		J16	J20	L1	L2	L3	L4	L5	L6	L7	L8
INPUT	For OVER SEAS	VJS3417	VJS3417	–	VLP0145	–	VLP0145	–	VLP0145	–	VLP0145
	For JAPAN	VJP3417	VJP3417	VLP0145	–	VLP0145	–	VLP0145	–	VLP0145	–
		J17	J21	L9	L10	L11	L12	L13	L14	L15	L16
OUTPUT	For OVER SEAS	VJP3417	VJP3417	VLP0145	–	VLP0145	–	VLP0145	–	VLP0145	–
	For JAPAN	VJS3417	VJS3417	–	VLP0145	–	VLP0145	–	VLP0145	–	VLP0145

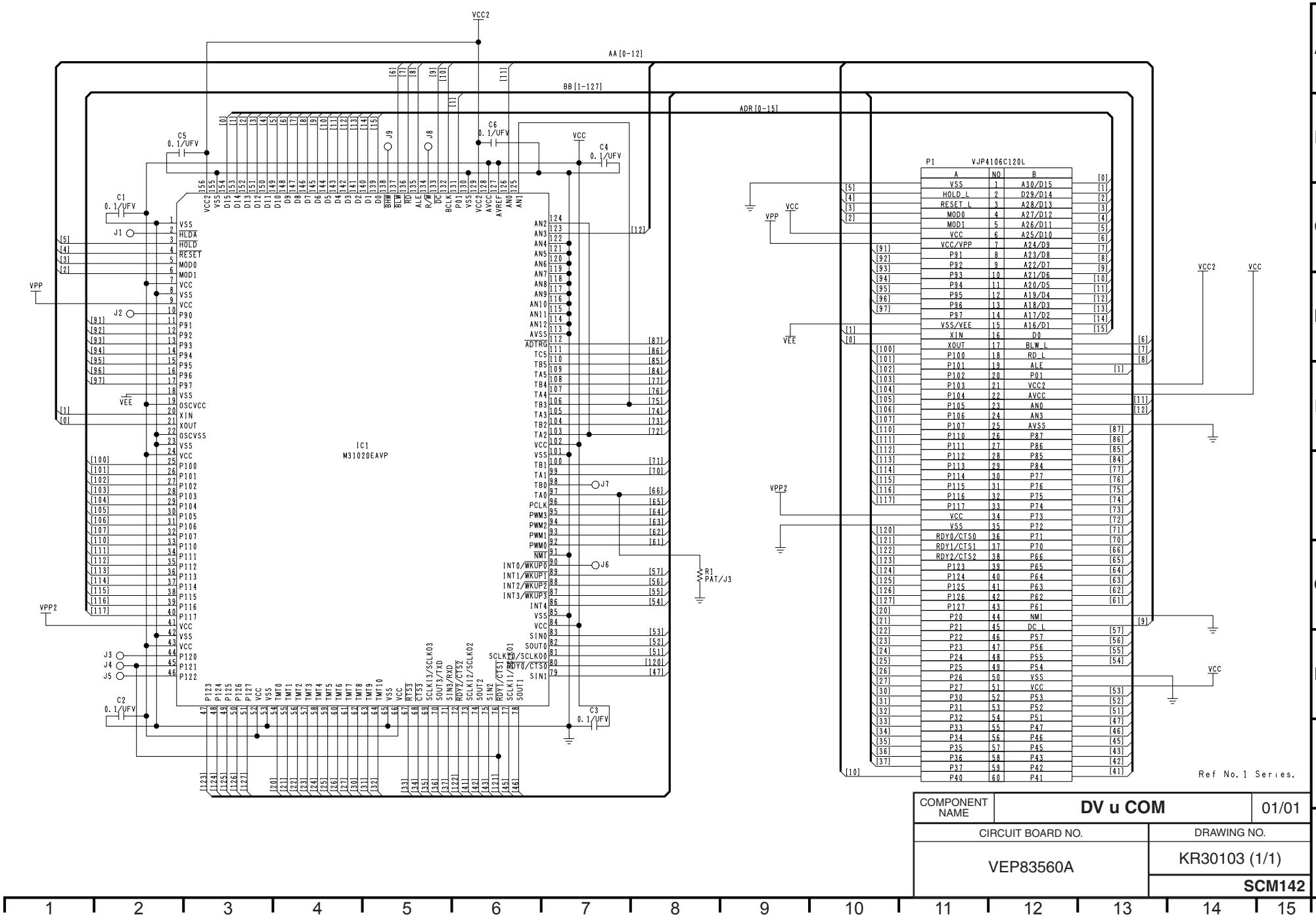
COMPONENT NAME	AV_JACK (AUDIO I/O)	03/05
CIRCUIT BOARD NO.		DRAWING NO.
VEP80C13A		KR0Q23 (3/5)
		SCM139



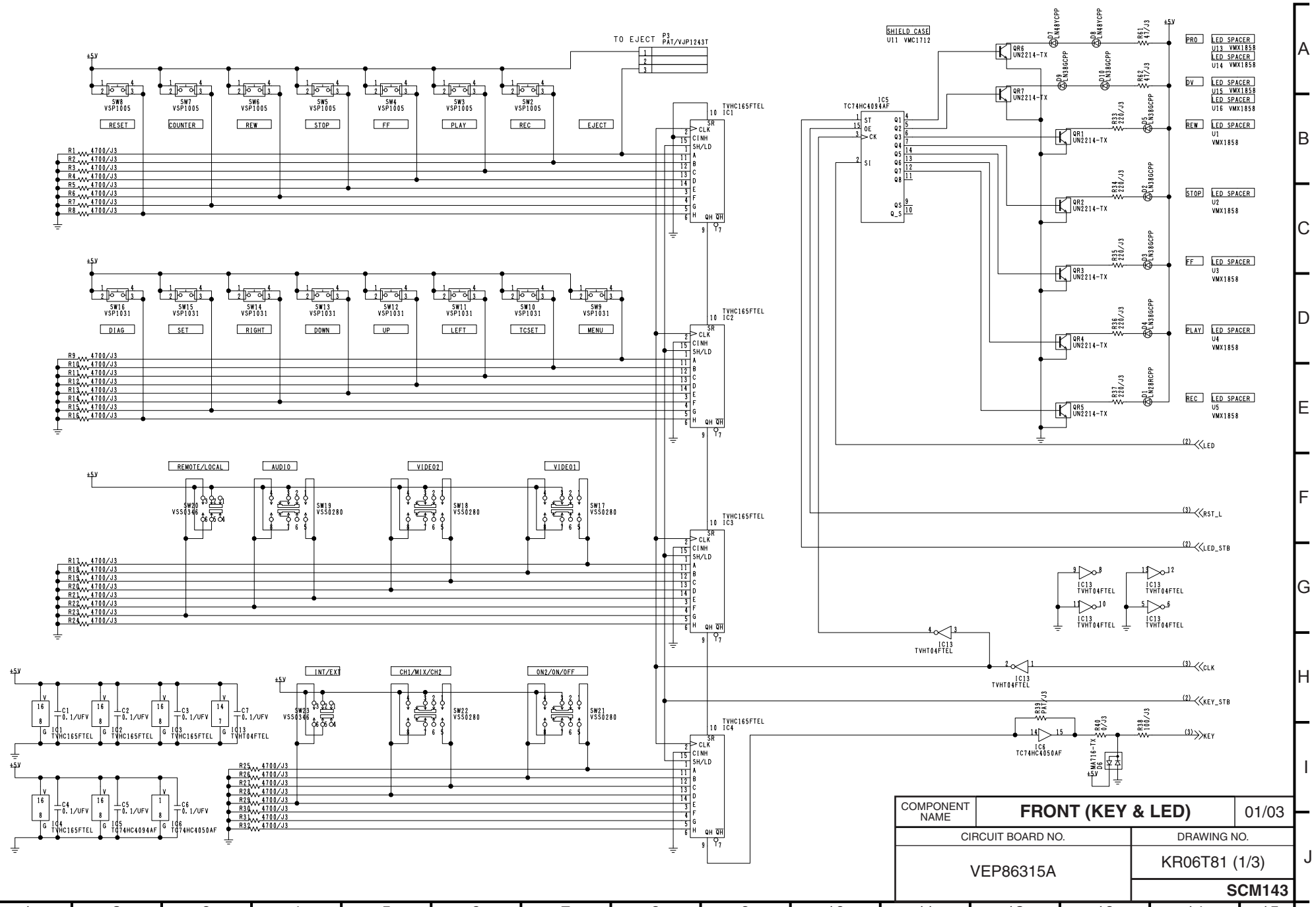
COMPONENT NAME	AV_JACK (AES I/O)	04/05
CIRCUIT BOARD NO.		DRAWING NO.
VEP80C13A		KR0Q23 (4/5)
		SCM140



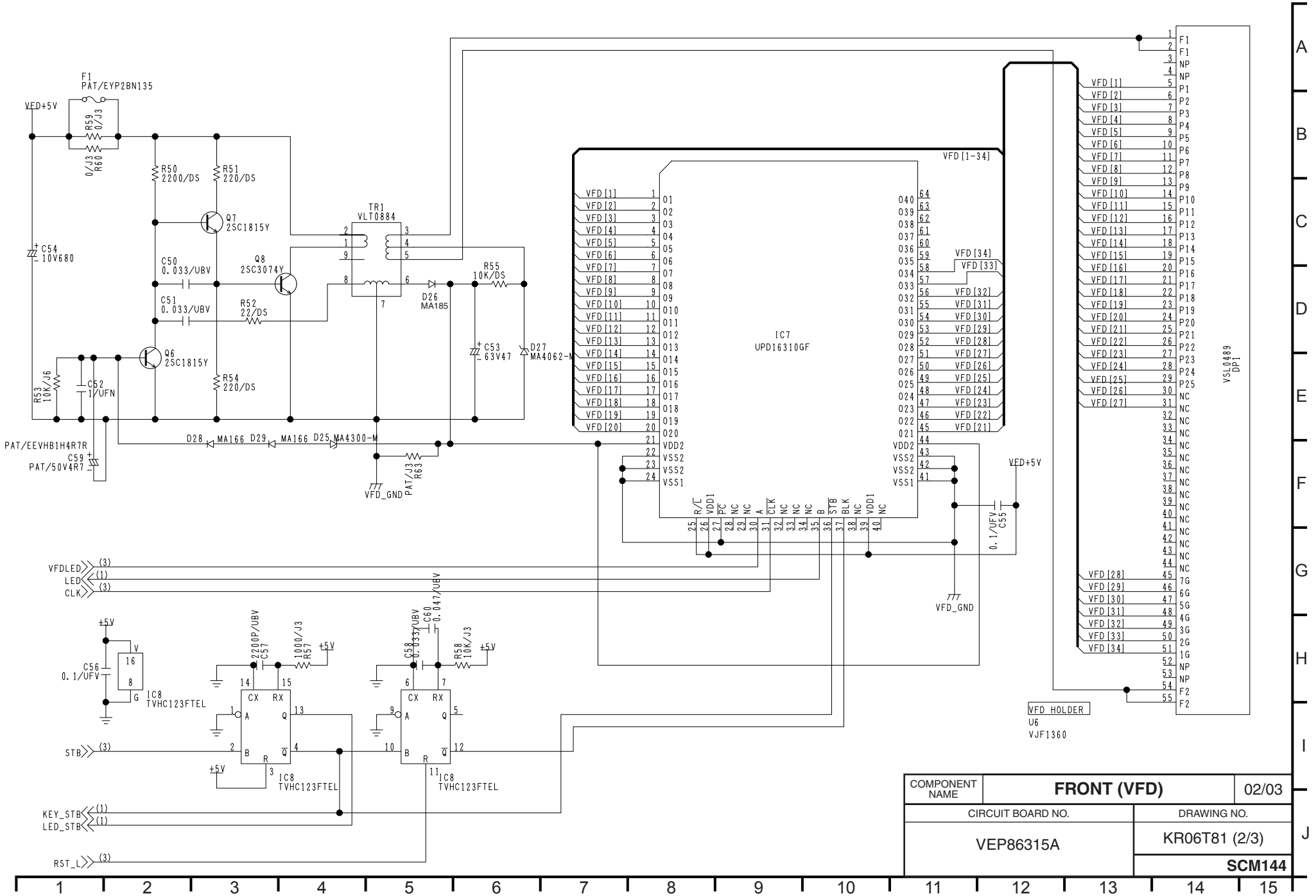
COMPONENT NAME	AV_JACK (AES OUT)	05/05
CIRCUIT BOARD NO.		DRAWING NO.
VEP80C13A		KR0Q23 (5/5)
		SCM141



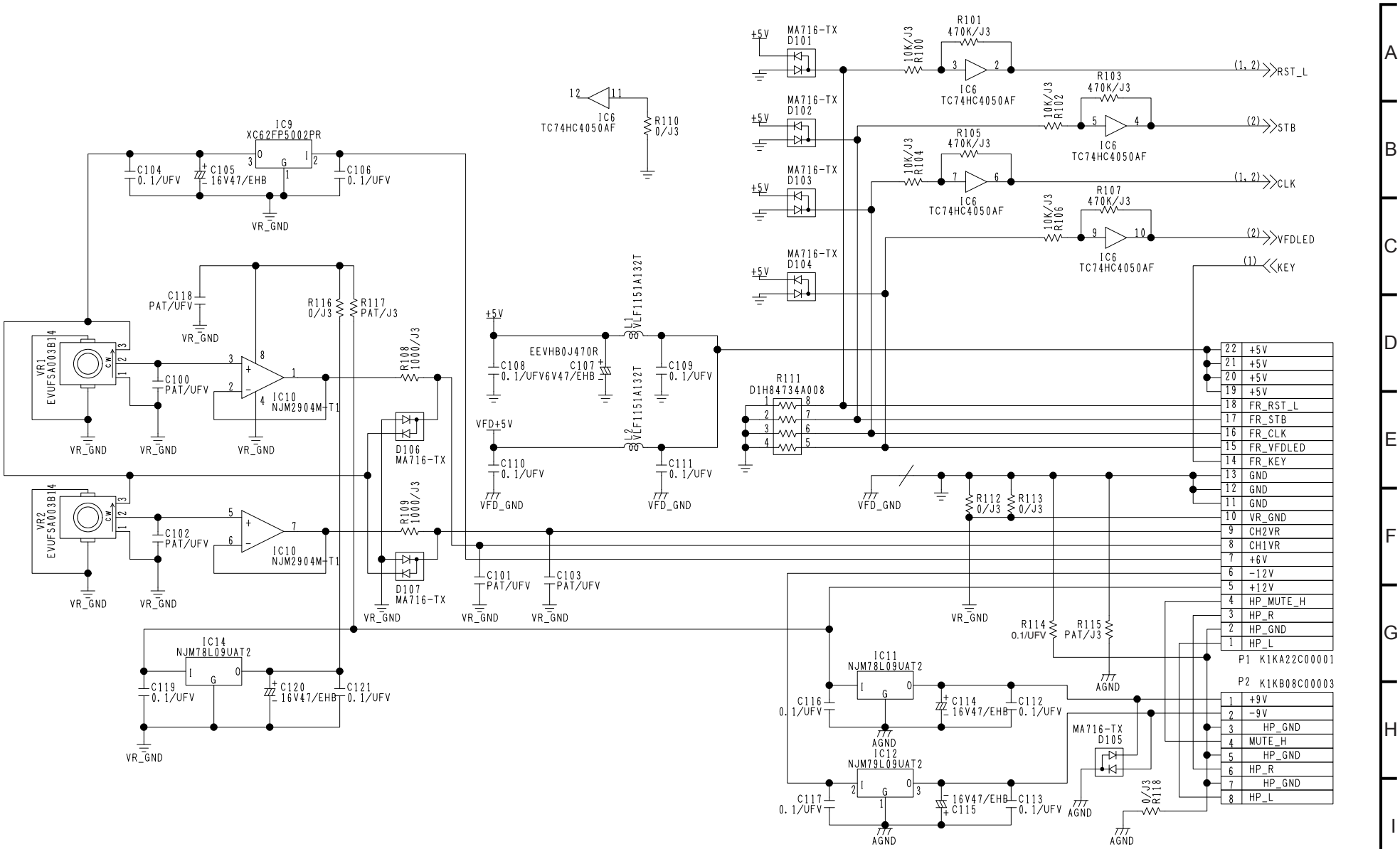
COMPONENT NAME	DV u COM	01/01
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83560A	KR30103 (1/1)	
	SCM142	



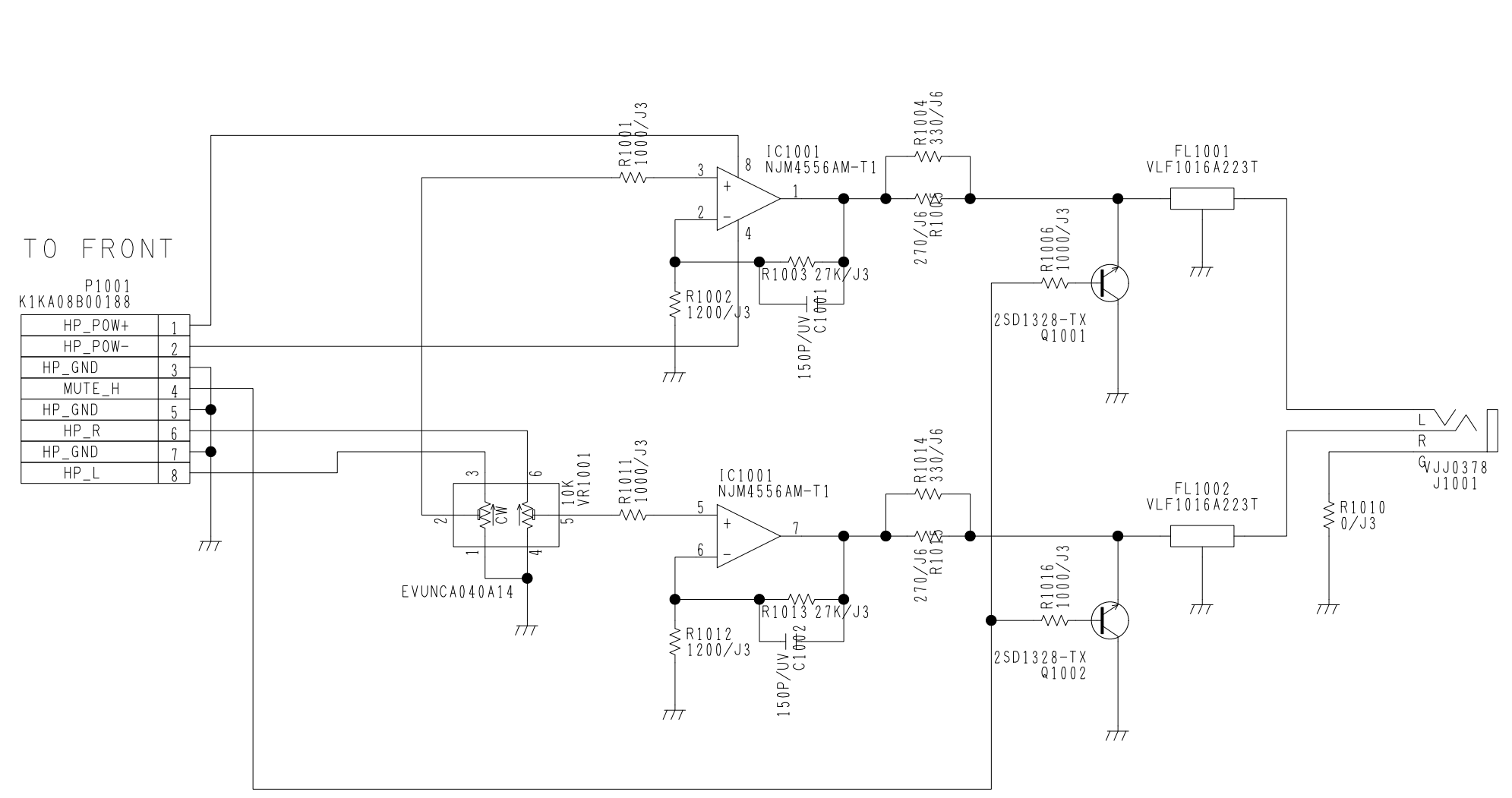
COMPONENT NAME	FRONT (KEY & LED)	01/03
CIRCUIT BOARD NO.		DRAWING NO.
VEP86315A		KR06T81 (1/3)
		SCM143



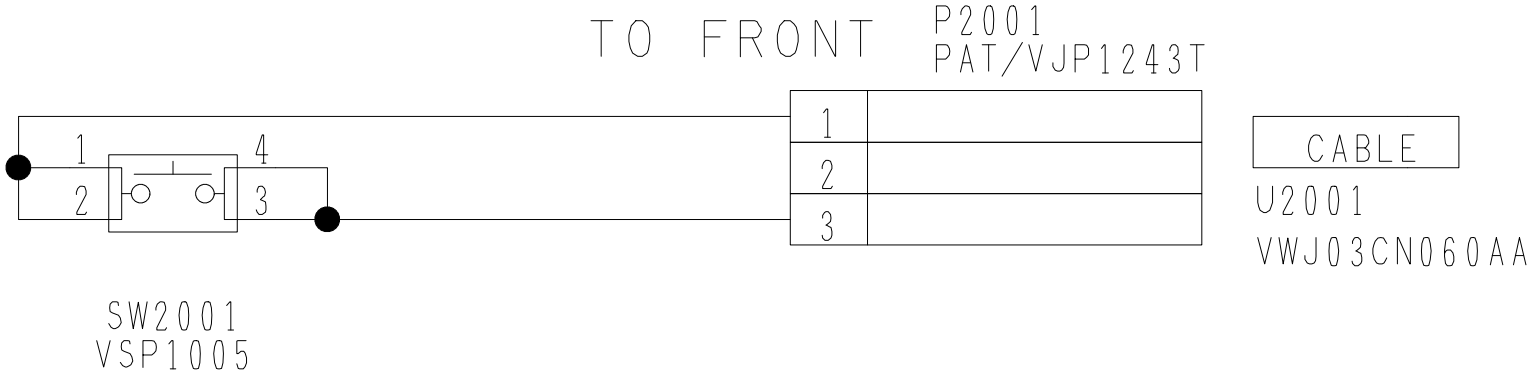
COMPONENT NAME	FRONT (VFD)	02/03
CIRCUIT BOARD NO.		DRAWING NO.
VEP86315A		KR06T81 (2/3)
		SCM144



COMPONENT NAME	FRONT (VR, CONECTOR)	03/03
CIRCUIT BOARD NO.		DRAWING NO.
VEP86315A		KR06T81 (3/3)
		SCM145



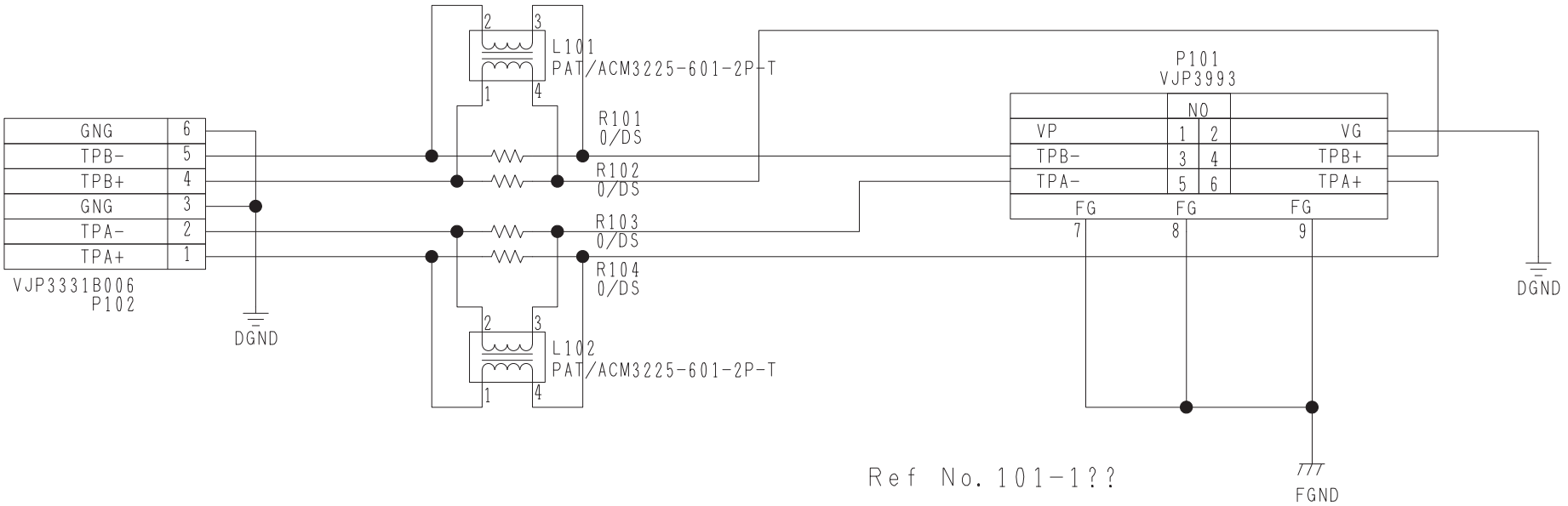
COMPONENT NAME	HP (HEAD PHONE)	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP80C15A		KR0Q25 (1/1)
		SCM146



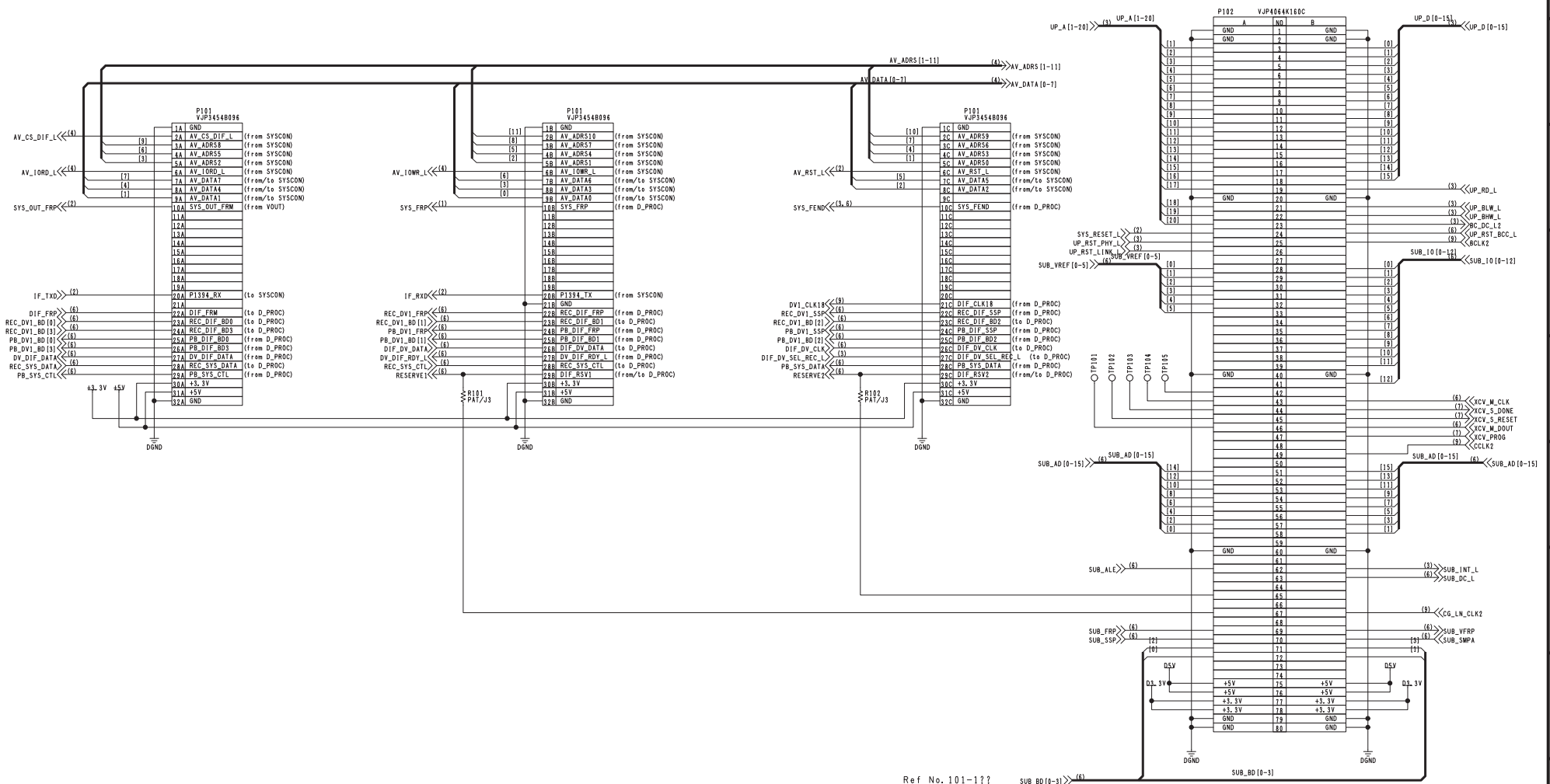
COMPONENT NAME	EJECT	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP80C16A		KR0Q26 (1/1)
		SCM147

A B C D E F G H I J

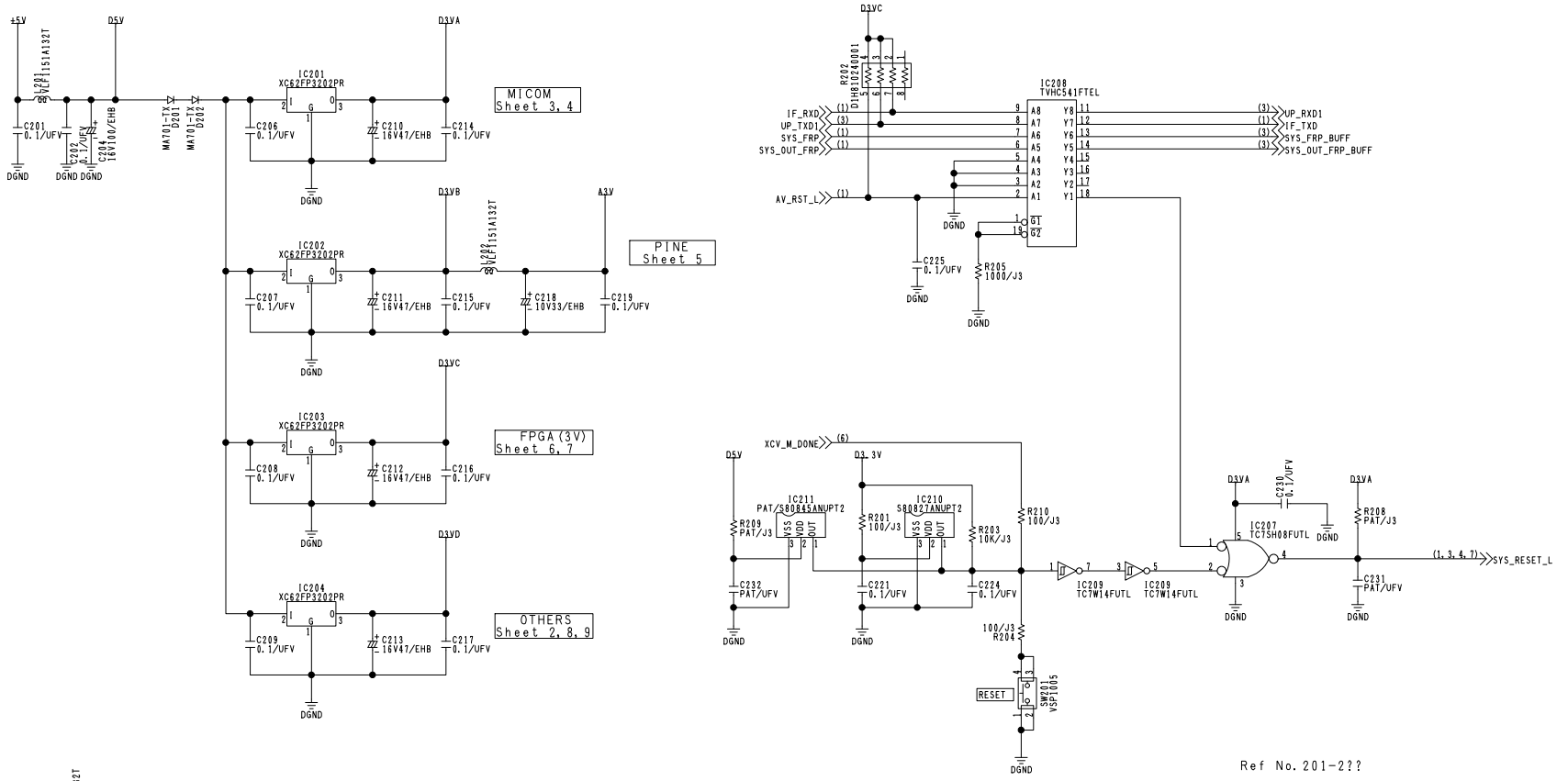
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15



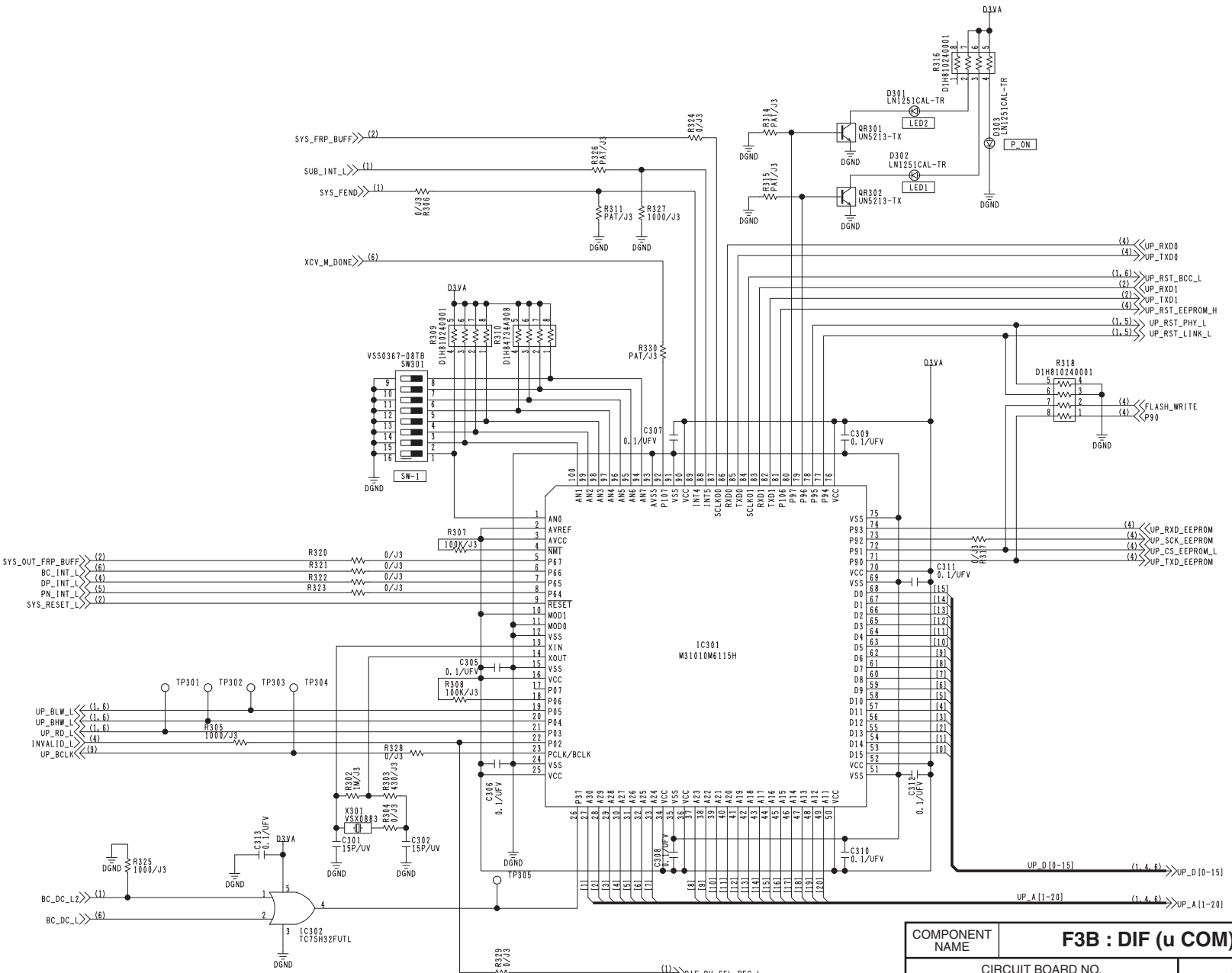
COMPONENT NAME	DIF JACK (1394 JACK)	01/01
CIRCUIT BOARD NO.		DRAWING NO.
VEP80C21A		KR0Q49 (1/1)
		SCM148



COMPONENT NAME	F3B : DIF (MOTHER)	01/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP83559A		KR30093 (1/9)
		SCM149

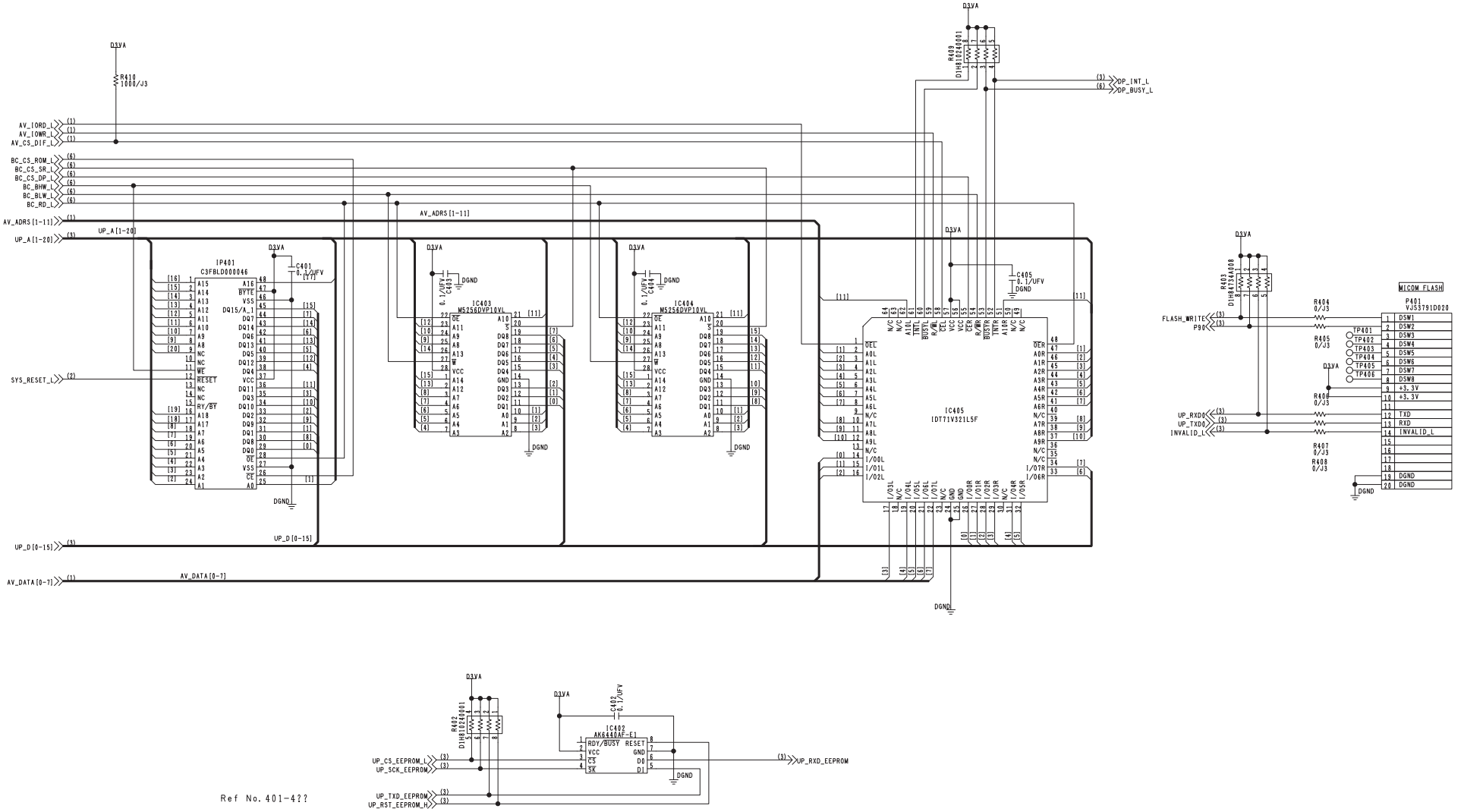


COMPONENT NAME	F3B : DIF (POWER BUFFER)	02/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP83559A		KR30093
		SCM150

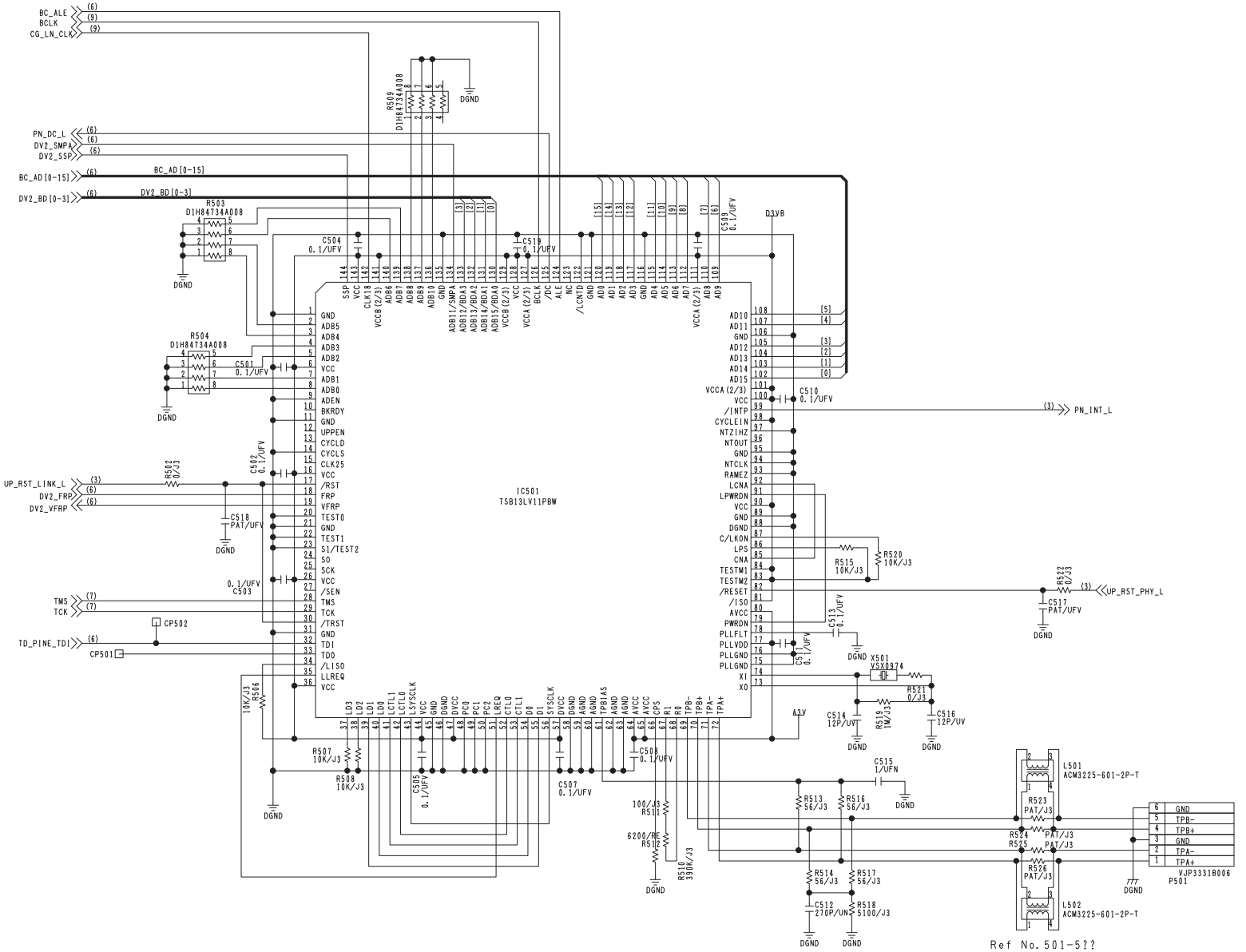


Ref No. 301-3??

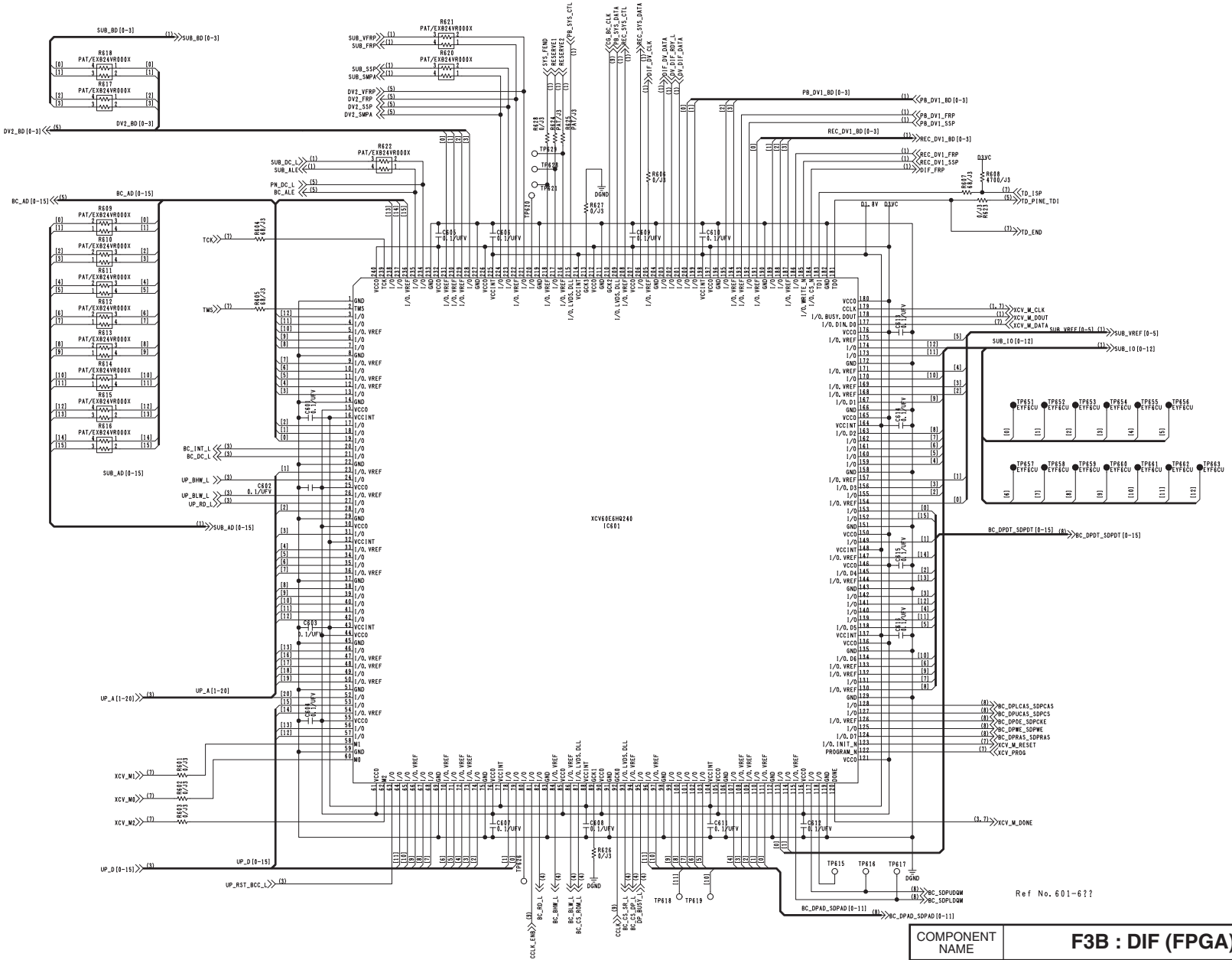
COMPONENT NAME	F3B : DIF (u COM)	03/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP83559A		KR30093 (3/9)
		SCM151



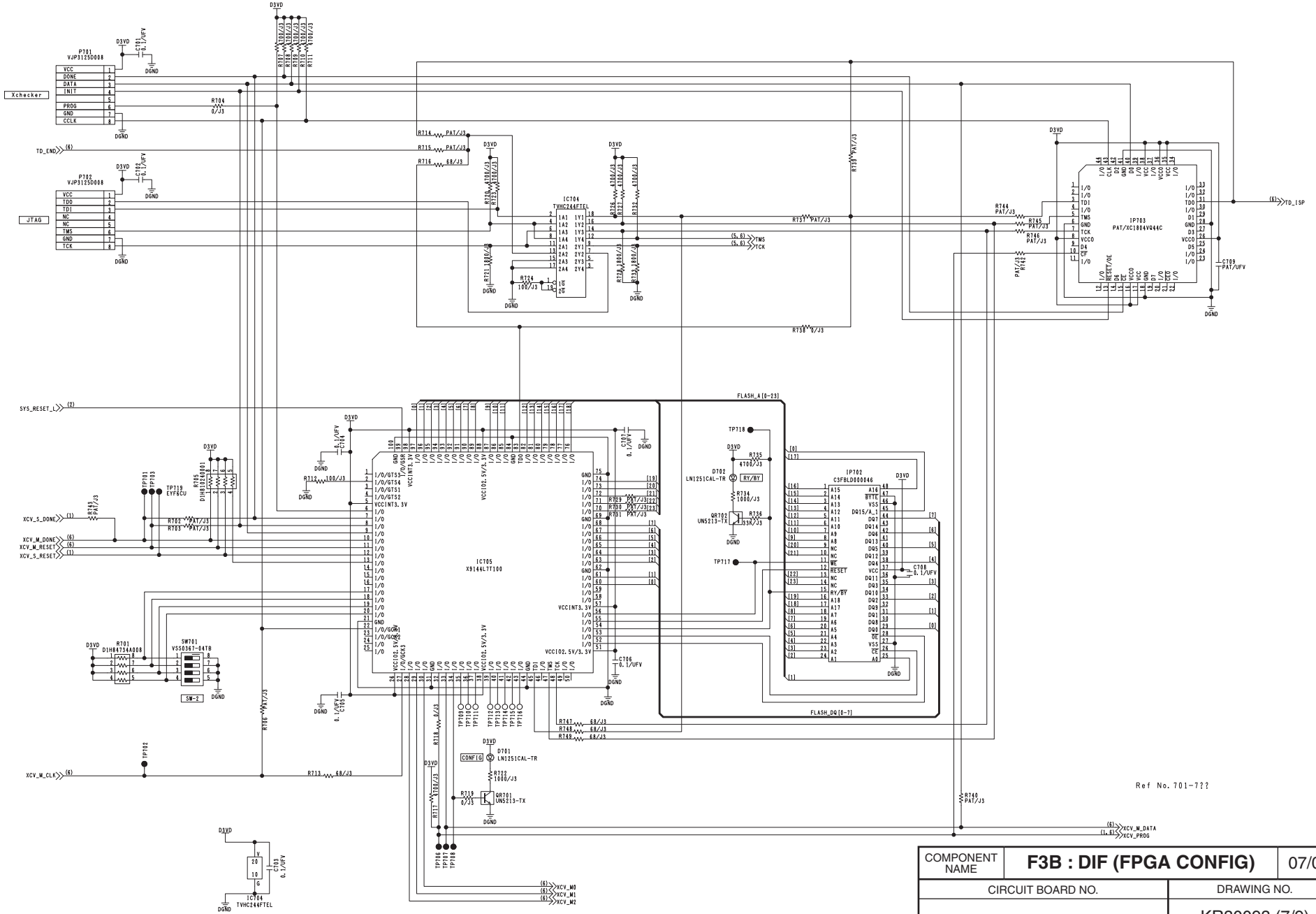
COMPONENT NAME	**F3B : DIF (uCOM MEMORY)**	04/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83559A	KR30093 (4/9)	
	SCM152	



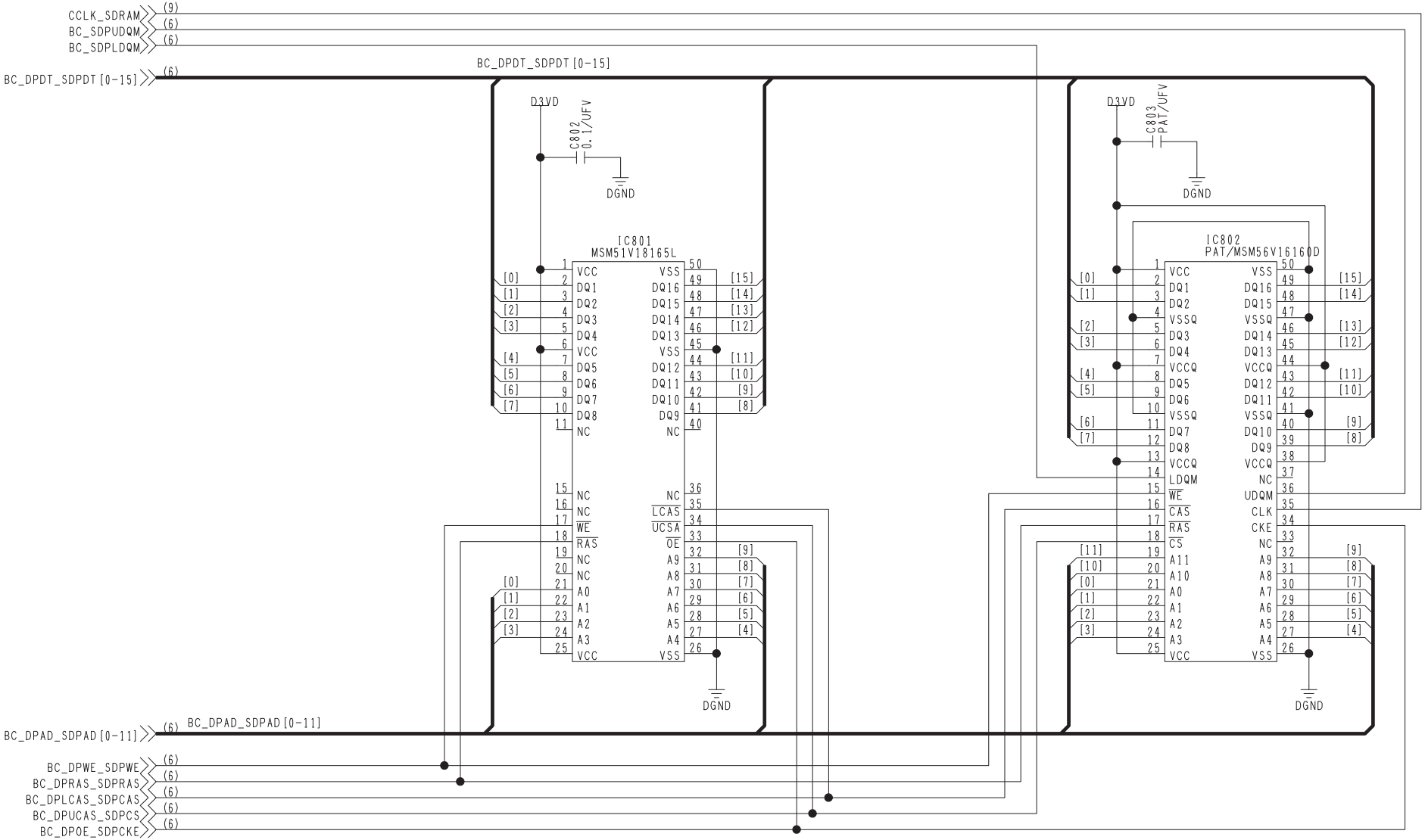
COMPONENT NAME	F3B : DIF (PINE)	05/09
CIRCUIT BOARD NO.	DRAWING NO.	
VEP83559A	KR30093 (5/9)	
	SCM153	



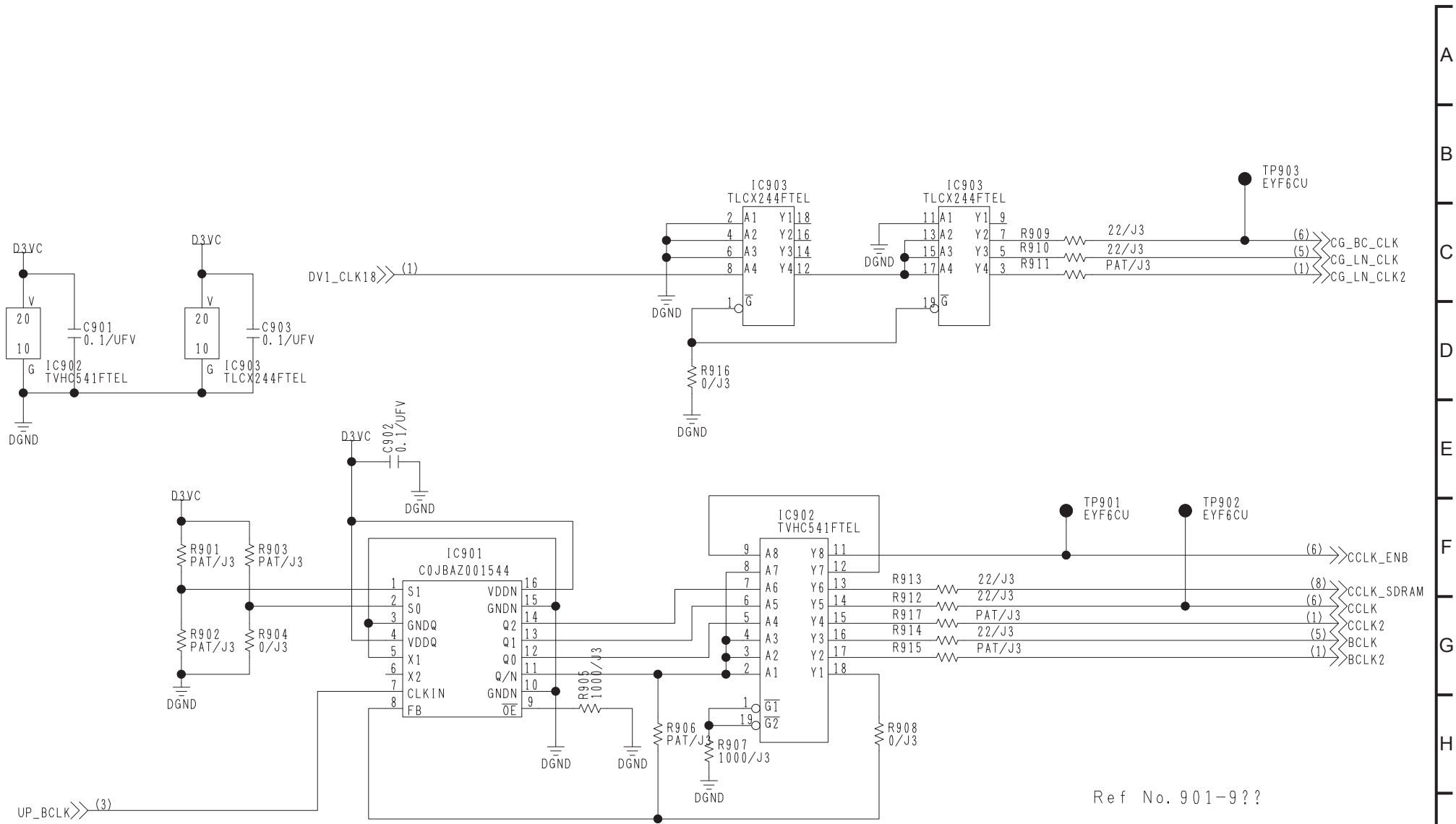
COMPONENT NAME	F3B : DIF (FPGA)	06/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP83559A		KR30093 (6/9)
		SCM154



COMPONENT NAME	F3B : DIF (FPGA CONFIG)	07/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP83559A		KR30093 (7/9)
		SCM155



COMPONENT NAME	F3B : DIF (FPGA DRAM)	08/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP83559A		KR30093 (8/9)
		SCM156



COMPONENT NAME	F3B : DIF (CLKGEN)	09/09
CIRCUIT BOARD NO.		DRAWING NO.
VEP83559A		KR30093 (9/9)
		SCM157

SECTION 6

CIRCUIT BOARD DIAGRAMS

NOTE:
BE SURE TO MAKE YOUR ORDERS OF REPLACEMENT PARTS ACCORDING TO PARTS LIST, SECTION 7

CAUTION

THE ▭ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.
PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.

CONTENTS

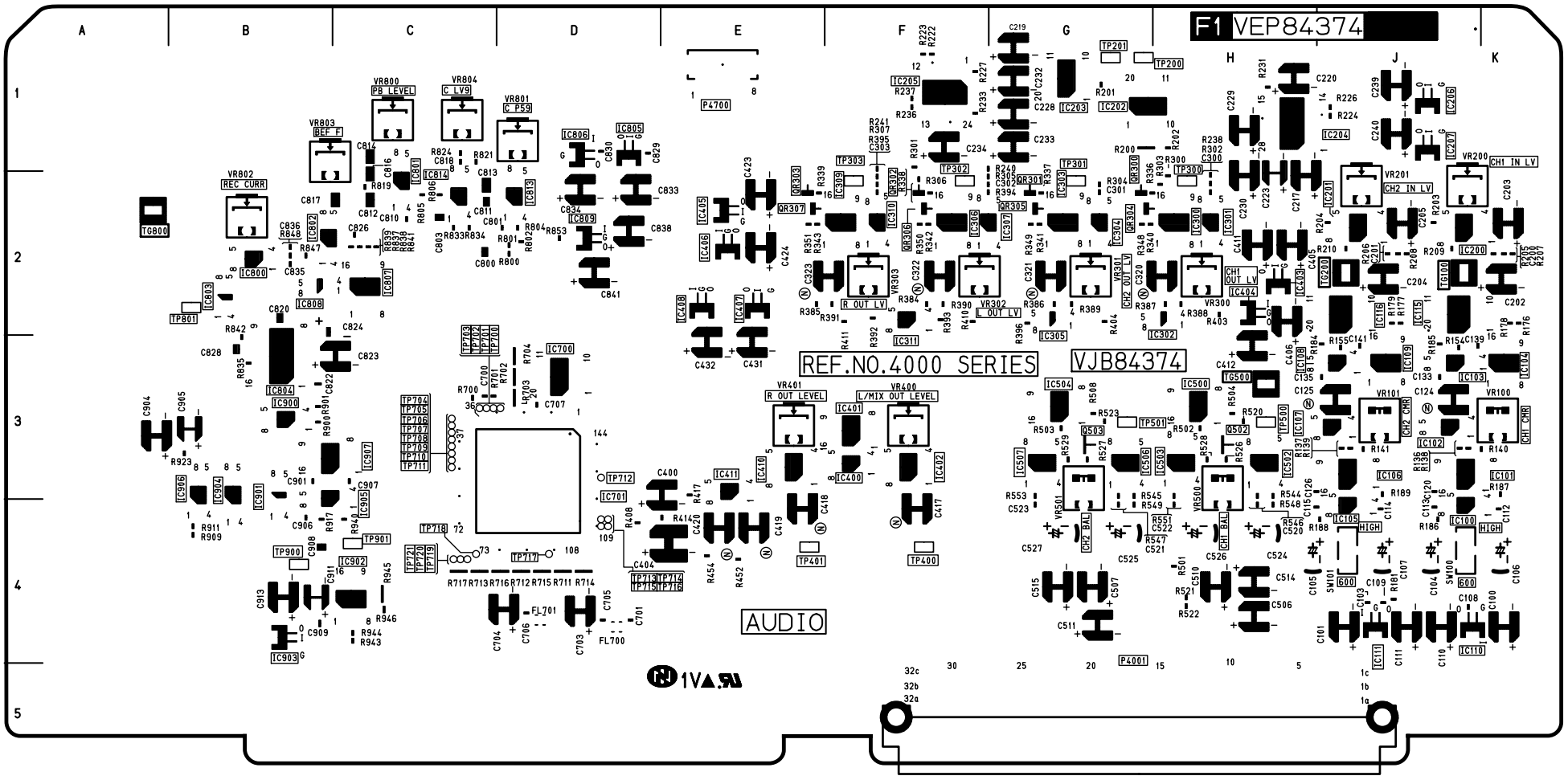
F1 AUDIO P.C. BOARD (VEP84374A)..... CBA-1
F2 V OUT P.C. BOARD (VEP83557B) CBA-3
F3A SDI P.C. BOARD (VEP83558A)
(AJ-YA455P) OPTION CBA-5
F4 D PROC P.C. BOARD (VEP83554B) ... CBA-6
CSP SUB P.C. BOARD (VEP83555A)..... CBA-8
F5 V IN P.C. BOARD (VEP83553B) CBA-9
F6 SYSCON P.C. BOARD (VEP86314B) .. CBA-11
F7 SERVO P.C. BOARD (VEP82238B)..... CBA-13
RF CUE P.C. BOARD (VEP85197A) CBA-15
F8 RF EQ P.C. BOARD (VEP85196A) CBA-16
MOTHER P.C. BOARD (VEP80C14A) CBA-17
MECHA IF P.C. BOARD (VEP82239A)..... CBA-19
MECHA IF2 P.C. BOARD (VEP82240A)... CBA-20
POWER1 P.C. BOARD (VEP81221B) CBA-21
AV JACK P.C. BOARD (VEP80C13A) CBA-23
FRONT P.C. BOARD (VEP86315A)..... CBA-25
DV u COM P.C. BOARD (VEP83560A)..... CBA-26
HP P.C. BOARD (VEP80C15A)..... CBA-26
F3B DIF / DIF JACK P.C. BOARD
(VEP83559A/VEP80C21A)(AJ-YAD455P)
OPTION..... CBA-27

F1 AUDIO P.C. BOARD (VEP84374A)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC4100	J4	IC4110	J4	IC4206	J1	IC4307	F2	IC4404	H2	IC4503	H3	IC4803	B2	IC4900	B3	P4700	E1	QR4306	F2	TP4301	G2	TP4702	C3	TP4711	B3	TP4720	C4	VR4300	H2	VR4801	D1
IC4101	J3	IC4111	J4	IC4207	J1	IC4309	F2	IC4405	E2	IC4504	G3	IC4804	B3	IC4901	B3	Q4502	H3	QR4307	E2	TP4302	F2	TP4703	C3	TP4712	D3	TP4721	C4	VR4301	G2	VR4802	B2
IC4102	J3	IC4115	J2	IC4209	G1	IC4310	F2	IC4406	E2	IC4506	G3	IC4805	D1	IC4902	C4	Q4503	G3	TG4100	J2	TP4303	F2	TP4704	B3	TP4713	D4	TP4801	B2	VR4302	F2	VR4803	B1
IC4103	J3	IC4116	J2	IC4300	H2	IC4311	F2	IC4407	E2	IC4507	G3	IC4806	D1	IC4903	B4	QR4300	G2	TG4200	J2	TP4400	F4	TP4705	B3	TP4714	D4	TP4900	B4	VR4303	F2	VR4804	C1
IC4104	K3	IC4200	J2	IC4301	H2	IC4394	G2	IC4408	E2	IC4700	D3	IC4807	C2	IC4904	B3	QR4301	G2	TG4500	H3	TP4401	E4	TP4706	B3	TP4715	D4	TP4901	B4	VR4400	F3		
IC4105	J4	IC4201	J2	IC4302	H2	IC4400	F3	IC4410	E3	IC4701	D3	IC4808	B2	IC4905	B3	QR4302	F2	TG4800	A2	TP4500	H3	TP4707	B3	TP4716	D4	VR4100	K3	VR4401	E3		
IC4106	J3	IC4202	G1	IC4303	G2	IC4401	F3	IC4411	E3	IC4800	B2	IC4809	D2	IC4906	B3	QR4303	E2	TP4200	G1	TP4501	G3	TP4708	B3	TP4717	D4	VR4101	J3	VR4500	H3		
IC4108	J3	IC4204	H1	IC4305	G2	IC4402	F3	IC4500	H3	IC4801	C2	IC4813	D2	IC4907	B3	QR4304	G2	TP4201	G1	TP4700	C3	TP4709	B3	TP4718	C4	VR4200	J2	VR4501	G3		
IC4109	J3	IC4205	F1	IC4306	F2	IC4403	H2	IC4502	H3	IC4802	B2	IC4814	C2	P4001	G4	QR4305	G2	TP4300	H2	TP4701	C3	TP4710	B3	TP4719	C4	VR4201	J2	VR4800	C1		

CBA-1



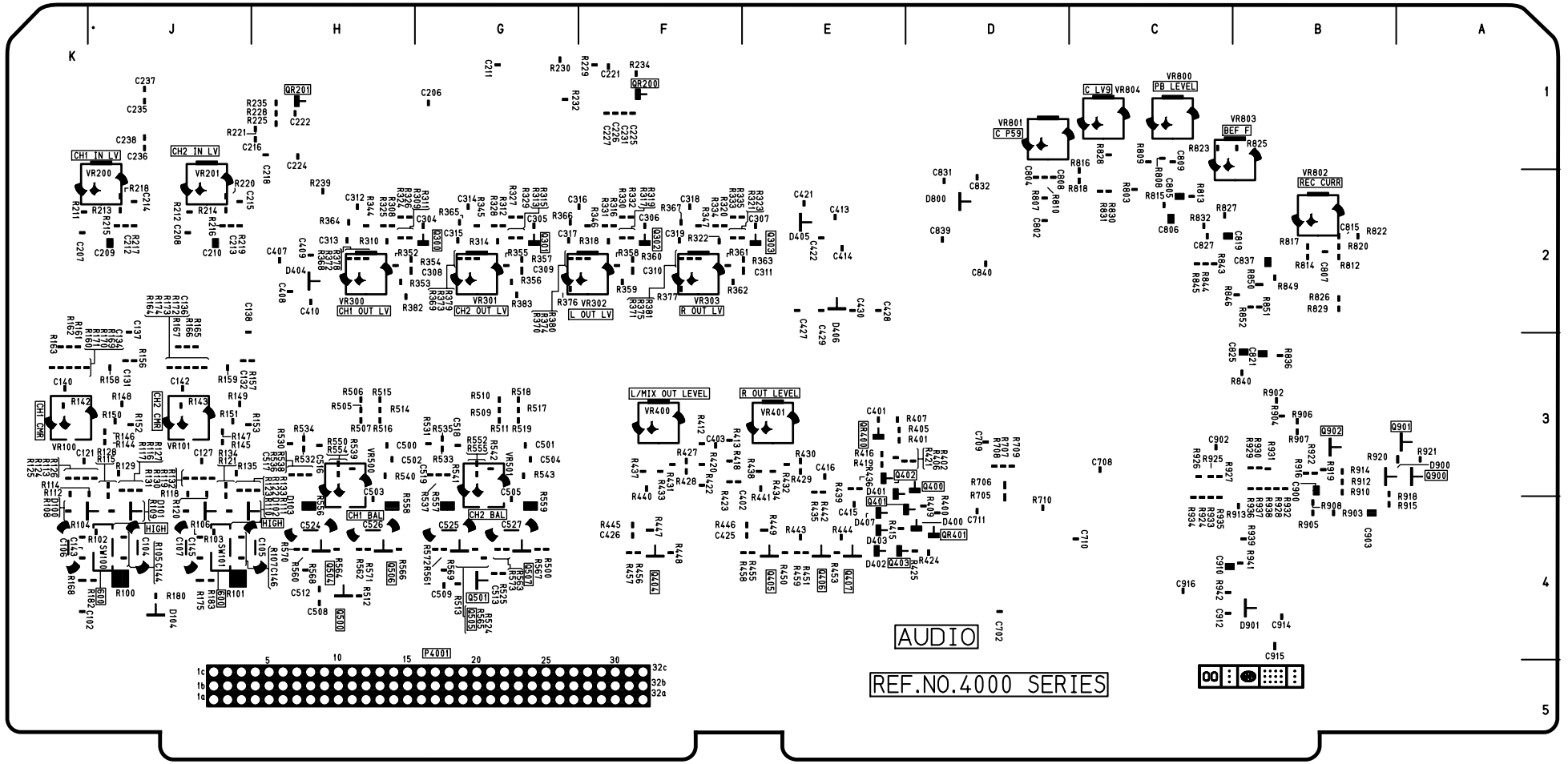
(COMPONENT SIDE)

F1 AUDIO P.C. BOARD (VEP84374A)

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
P4001	G5	Q4404	F4	Q4507	G4	VR4101	L3	VR4500	H3
Q4300	G2	Q4405	E4	Q4900	A3	VR4200	L2	VR4501	G3
Q4301	G2	Q4406	E4	Q4901	A3	VR4201	L2	VR4800	C1
Q4302	F2	Q4407	E4	Q4902	B3	VR4300	H2	VR4801	D1
Q4303	E2	Q4500	H4	QR4200	F1	VR4301	G2	VR4802	B2
Q4400	D3	Q4501	G4	QR4201	H1	VR4302	F2	VR4803	B1
Q4401	D4	Q4504	H4	QR4400	E3	VR4303	F2	VR4804	C1
Q4402	E3	Q4505	G4	QR4401	D4	VR4400	F3		
Q4403	E4	Q4506	H4	VR4100	K3	VR4401	E3		

CBA-2



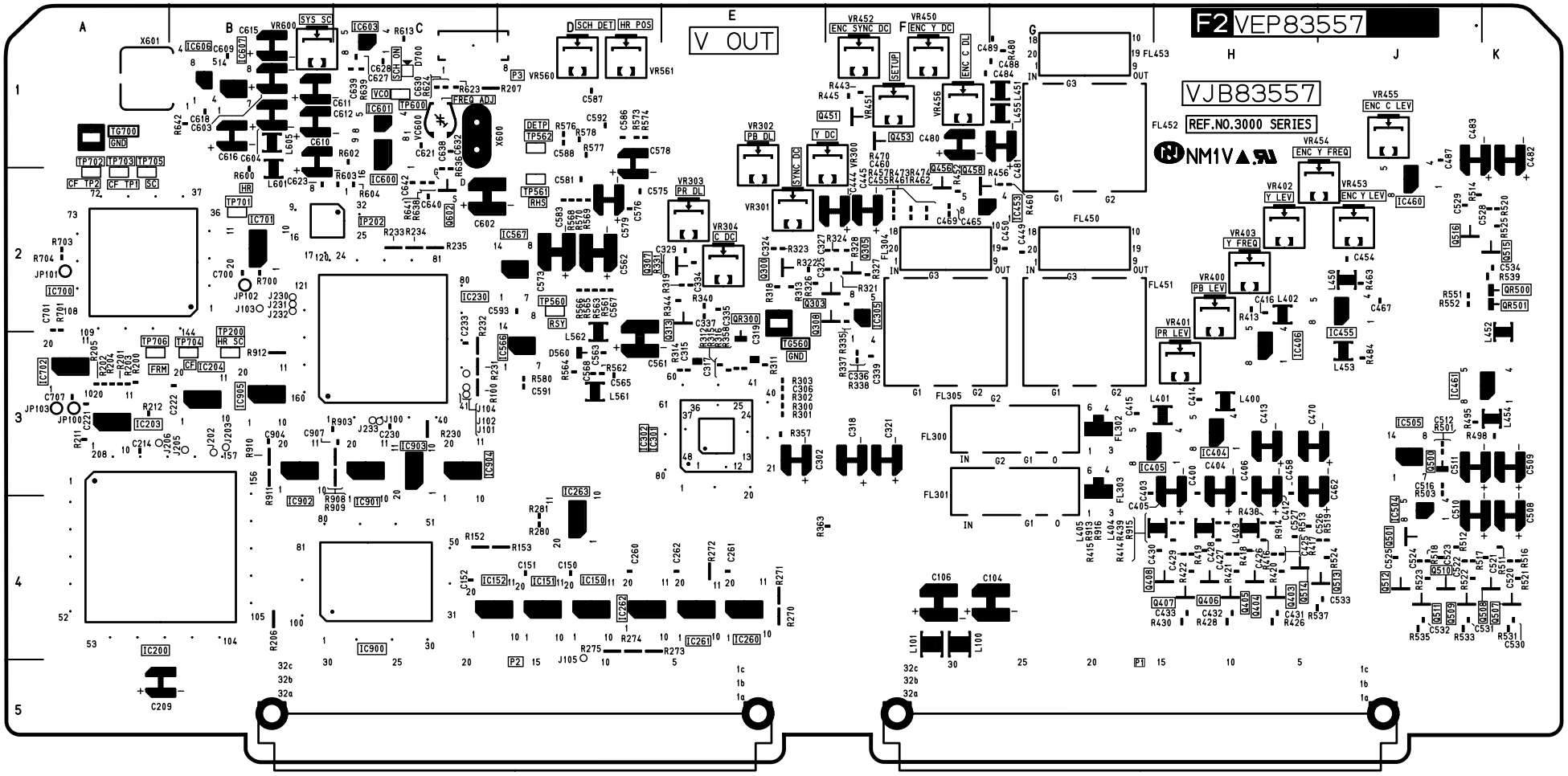
(FOIL SIDE)

F2 V OUT P.C. BOARD (VEP83557B)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3150	D4	IC3262	D4	IC3455	J2	IC3603	C1	IC3903	C3	Q3307	E2	Q3453	F1	Q3511	J4	TG3560	E2	TP3703	A2	VR3304	E2	VR3454	H2
IC3151	D4	IC3263	D4	IC3460	J2	IC3606	B1	IC3904	C3	Q3313	E2	Q3456	F2	Q3512	J4	TG3700	A1	TP3704	B3	VR3400	H2	VR3455	J1
IC3152	C4	IC3301	E3	IC3461	K3	IC3607	B1	IC3905	B3	Q3403	H4	Q3458	F2	Q3514	H4	TP3200	B3	TP3705	A2	VR3401	H3	VR3456	F1
IC3200	A4	IC3302	E3	IC3504	J4	IC3700	A2	IP3202	B2	Q3404	H4	Q3500	J3	Q3515	K2	TP3560	D2	TP3706	A3	VR3402	H2	VR3560	D1
IC3203	A3	IC3305	F2	IC3505	J3	IC3701	B2	P3001	H5	Q3405	H4	Q3500	J4	Q3516	J2	TP3561	D2	VC3600	C1	VR3403	H2	VR3561	D1
IC3204	B3	IC3404	H3	IC3556	D3	IC3702	A3	P3002	D5	Q3406	H4	Q3501	J4	Q3602	C2	TP3562	D1	VR3300	E1	VR3450	F1	VR3600	B1
IC3230	C2	IC3405	H3	IC3567	D2	IC3900	C4	P3003	C1	Q3407	H4	Q3507	K4	QR3300	E3	TP3600	C1	VR3301	E2	VR3451	F1		
IC3260	E4	IC3406	H3	IC3600	C2	IC3901	C3	Q3300	E2	Q3408	H4	Q3508	K4	QR3500	K2	TP3701	B2	VR3302	E1	VR3452	F1		
IC3261	E4	IC3453	F2	IC3601	C1	IC3902	B3	Q3305	F2	Q3451	F1	Q3509	J4	QR3501	K2	TP3702	A2	VR3303	E2	VR3453	J2		

CBA-3

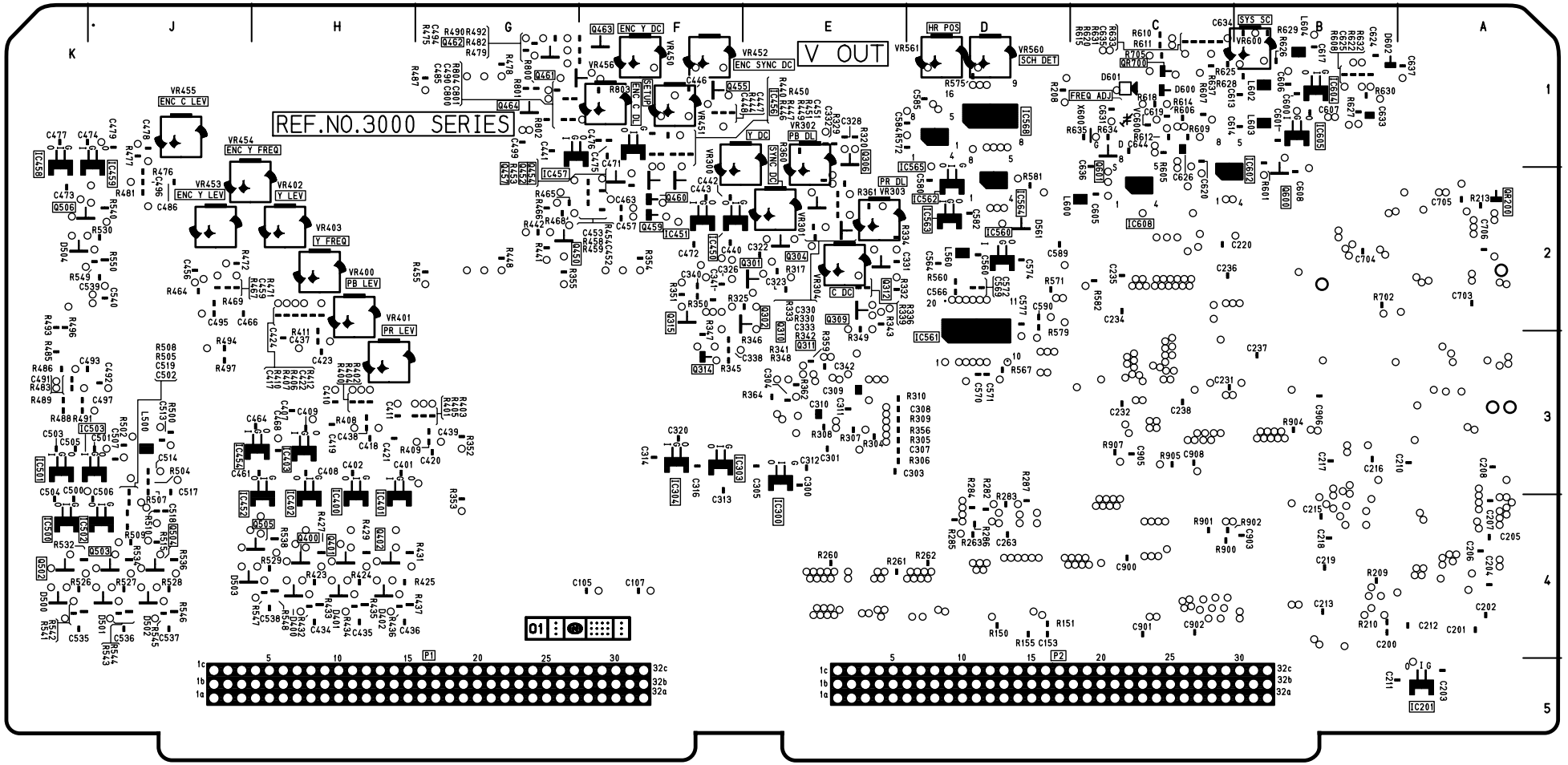


(COMPONENT SIDE)

F2 V OUT P.C. BOARD (VEP83557B)

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3201	A5	IC3451	F2	IC3502	J4	IC3602	B1	Q3309	E2	Q3450	G2	Q3463	F1	QR3200	A2	VR3401	H3	VR3456	F1
IC3300	E3	IC3452	H4	IC3503	J3	IC3605	B1	Q3310	E2	Q3452	F2	Q3464	G1	QR3700	C1	VR3402	H2	VR3550	D1
IC3303	F3	IC3454	H3	IC3560	D2	IC3608	C2	Q3311	E2	Q3454	F2	Q3502	K4	VC3600	C1	VR3403	H2	VR3551	D1
IC3304	F3	IC3456	F1	IC3561	D3	P3001	G5	Q3312	E2	Q3455	F1	Q3503	J4	VR3300	E1	VR3450	F1	VR3600	B1
IC3400	H4	IC3457	G1	IC3562	D2	P3002	D5	Q3314	F3	Q3457	F2	Q3504	J4	VR3301	E2	VR3451	F1		
IC3401	H4	IC3458	K1	IC3563	D2	Q3301	E2	Q3315	F2	Q3459	F2	Q3505	H4	VR3302	E1	VR3452	F1		
IC3402	H4	IC3459	J2	IC3564	D2	Q3302	F2	Q3400	H4	Q3460	F2	Q3506	K2	VR3303	E2	VR3453	J2		
IC3403	H3	IC3500	K4	IC3565	D1	Q3304	E2	Q3401	H4	Q3461	G1	Q3600	B2	VR3304	E2	VR3454	H2		
IC3450	F2	IC3501	K3	IC3568	D1	Q3306	E1	Q3402	H4	Q3462	G1	Q3601	C1	VR3400	H2	VR3455	J1		

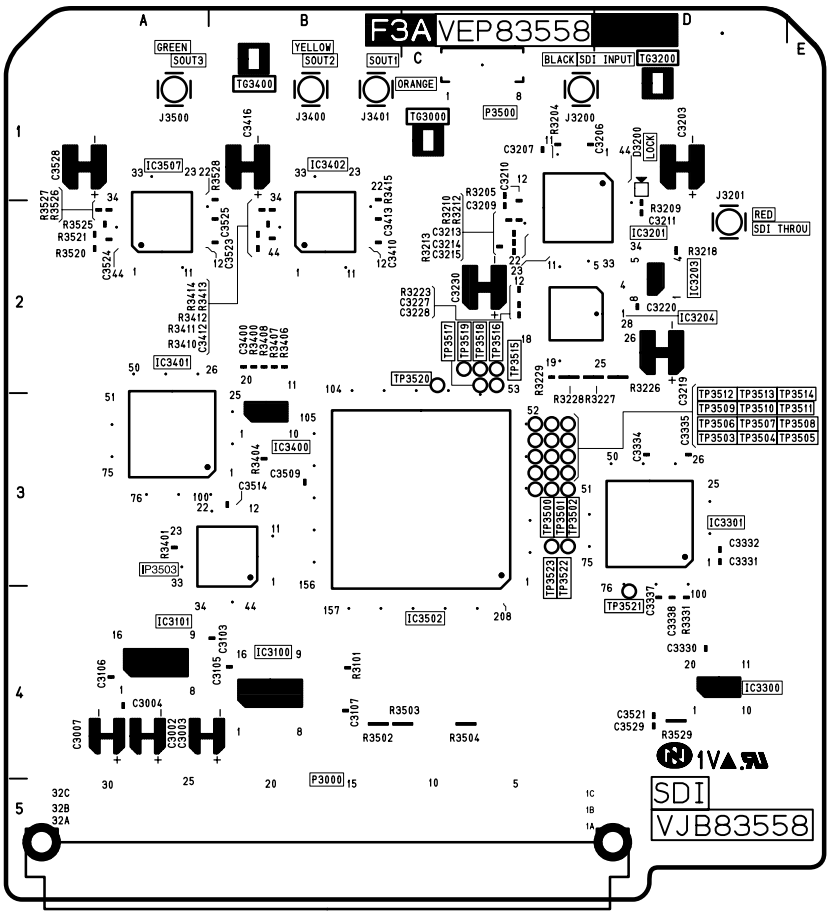


(FOIL SIDE)

F3A SDI P.C. BOARD (VEP83558A) (AJ-YA455P)

COMPONENT SIDE

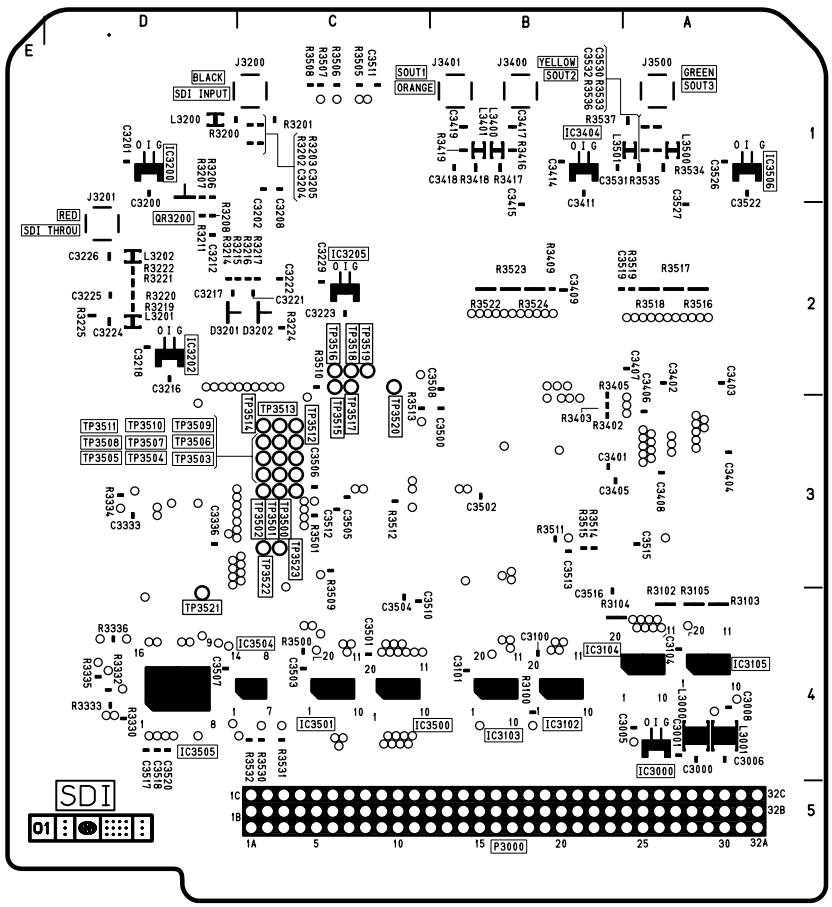
REF	LOC
IC3100	B4
IC3101	A4
IC3201	C2
IC3203	D2
IC3204	C2
IC3300	D4
IC3301	D3
IC3400	B3
IC3401	A3
IC3402	B2
IC3502	C3
IC3507	A2
IP3503	B3
P3000	B5
P3500	C1
TG3000	C1
TG3200	D1
TG3400	B1
TP3500	C3
TP3501	C3
TP3503	C3
TP3504	C3
TP3505	C3
TP3506	C3
TP3507	C3
TP3508	C3
TP3509	C3
TP3510	C3
TP3511	C3
TP3512	C3
TP3513	C3
TP3514	C3
TP3515	C2
TP3516	C2
TP3517	C2
TP3518	C2
TP3519	C2
TP3520	C2
TP3521	D4
TP3522	C3
TP3523	C3



(COMPONENT SIDE)

FOIL SIDE

REF	LOC
IC3000	A4
IC3102	B4
IC3103	B4
IC3104	A4
IC3105	A4
IC3200	D1
IC3202	D2
IC3205	C2
IC3404	B1
IC3500	C4
IC3501	C4
IC3504	C4
IC3505	D4
IC3506	A1
P3000	B5
QR3200	D1
TP3500	C3
TP3501	C3
TP3502	C3
TP3503	C3
TP3504	C3
TP3506	C3
TP3507	C3
TP3508	C3
TP3509	C3
TP3509	C3
TP3510	C3
TP3511	C3
TP3512	C3
TP3513	C3
TP3514	C3
TP3515	C2
TP3516	C2
TP3517	C2
TP3518	C2
TP3519	C2
TP3520	C2
TP3521	D4
TP3522	C3
TP3523	C3



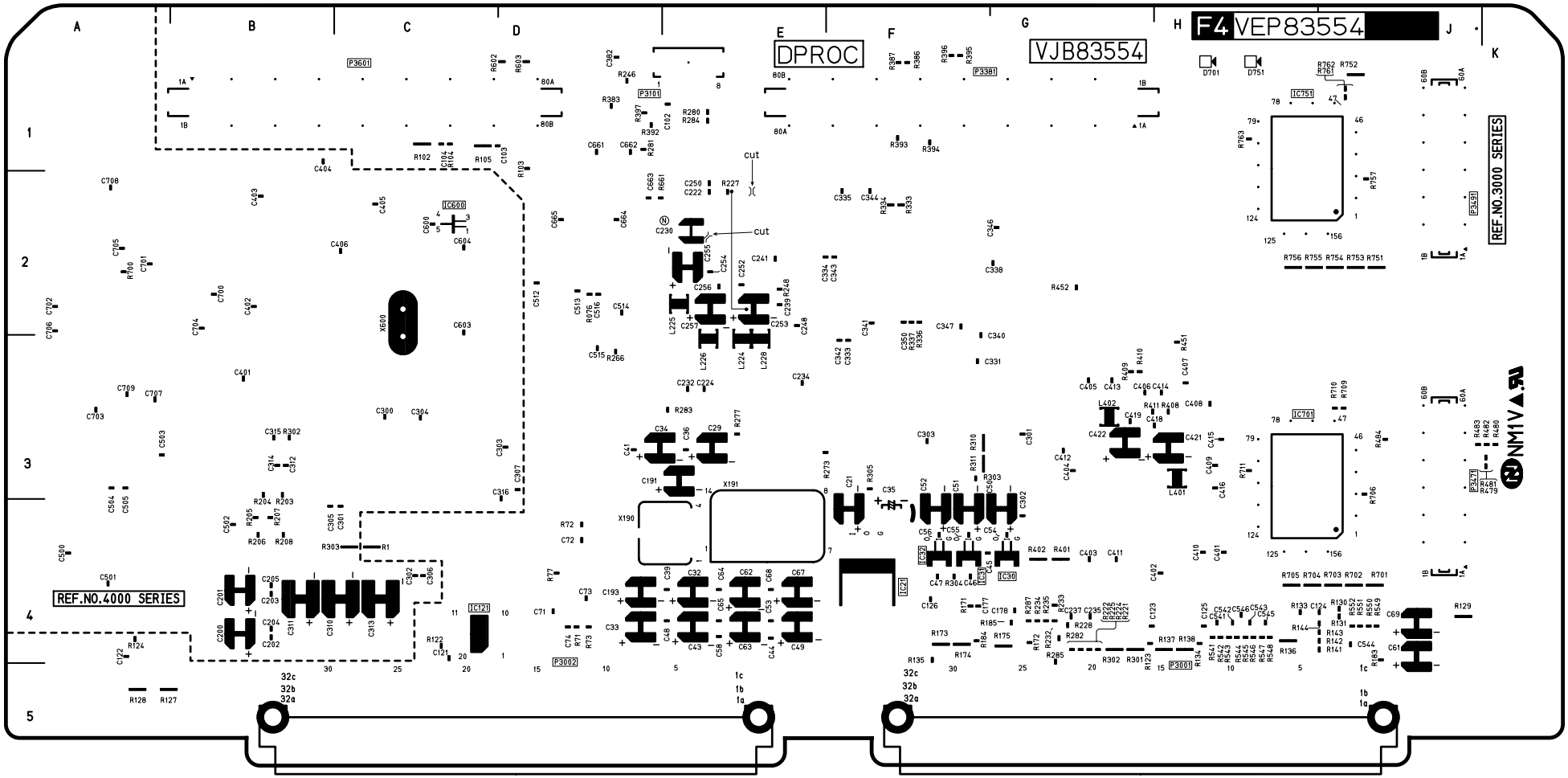
(FOIL SIDE)

F4 D PROC P.C.BOARD (VEP83554B)

COMPONENT SIDE

REF	LOC	REF	LOC
IC3021	F4	P3002	D5
IC3030	G4	P3101	E1
IC3031	F4	P3381	F1
IC3032	F4	P3471	J3
IC3121	C4	P3491	J1
IC3701	H3	P3601	C1
IC3751	H1		
IC4600	C2		
P3001	H5		

CBA-6



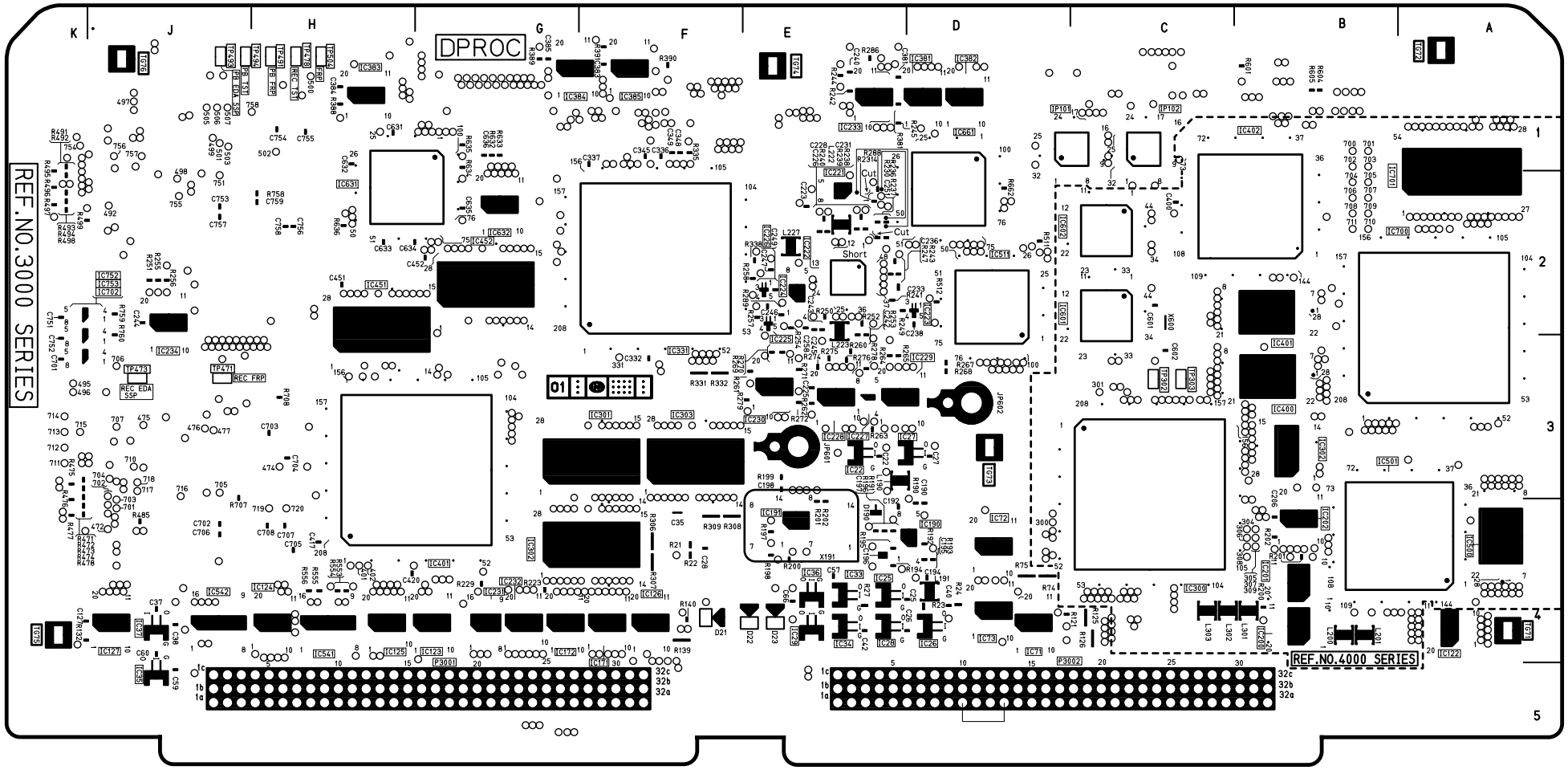
(COMPONENT SIDE)

F4 D PROC P.C.BOARD (VEP83554A)

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3022	E3	IC3036	E4	IC3126	F4	IC3223	D2	IC3233	E1	IC3383	H1	IC3631	H2	IC4302	B3	IC4701	A2	TG3074	E1	TP3504	H1
IC3025	E4	IC3037	J4	IC3127	J4	IC3224	E2	IC3290	E3	IC3384	F1	IC3632	G2	IC4400	B3	IC4900	C4	TG3075	K4	TP4302	C3
IC3026	D4	IC3071	D4	IC3129	G4	IC3225	E2	IC3294	J2	IC3385	F1	IC3661	D2	IC4401	B2	IP3101	D1	TG3076	J1	TP4303	C3
IC3027	E3	IC3072	A1	IC3171	F4	IC3226	E2	IC3301	F3	IC3401	G3	IC3702	K3	IC4402	B2	IP3102	C1	TP3471	J3		
IC3028	E4	IC3072	D4	IC3172	G4	IC3227	E3	IC3302	F4	IC3451	H2	IC3752	K2	IC4500	A4	P3001	G5	TP3473	J3		
IC3029	E4	IC3073	D4	IC3190	D4	IC3228	E3	IC3303	F3	IC3452	H2	IC3759	K2	IC4501	B4	P3002	D5	TP3478	H1		
IC3033	E4	IC3122	A5	IC3191	E4	IC3229	E3	IC3331	F2	IC3511	D2	IC4200	B5	IC4601	C2	TG3071	A4	TP3491	H1		
IC3034	E4	IC3124	H4	IC3221	E2	IC3231	G4	IC3381	D1	IC3541	H4	IC4201	B5	IC4602	C2	TG3072	A1	TP3493	J1		
IC3035	J5	IC3125	H4	IC3222	E2	IC3232	G4	IC3382	D1	IC3542	J4	IC4202	B5	IC4700	A2	TG3073	D3	TP3494	J1		

CBA-7

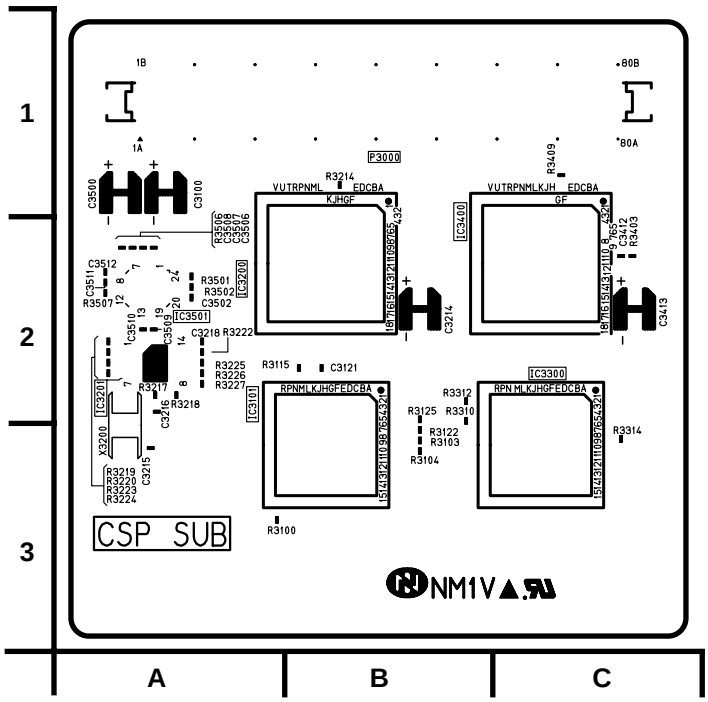


(FOIL SIDE)

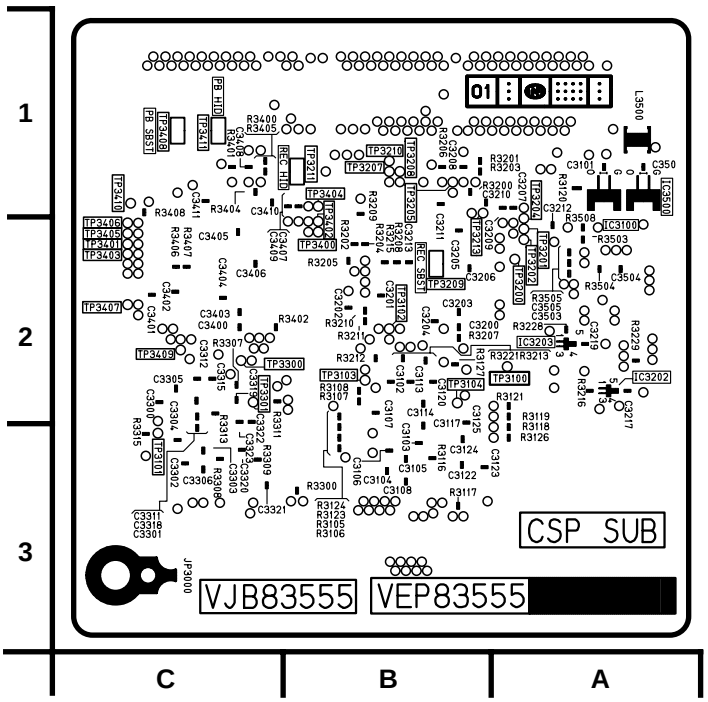
CSP SUB P.C. BOARD (VEP83555A)

COMPONENT SIDE

REF	LOC
IC3101	B3
IC3200	B2
IC3201	A2
IC3300	C3
IC3400	C2
IC3501	A2
P3000	B1



(COMPONENT SIDE)



(FOIL SIDE)

FOIL SIDE

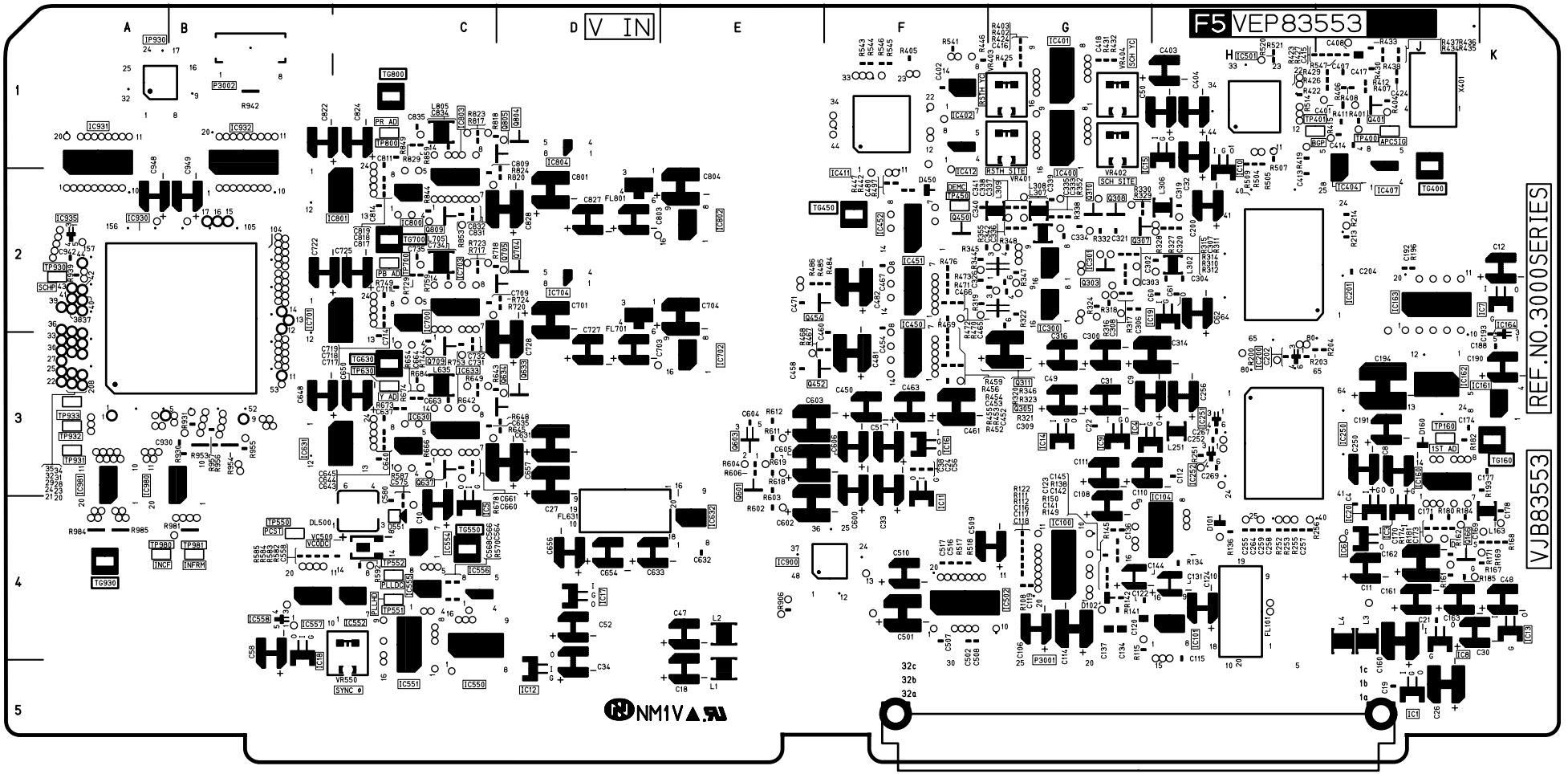
REF	LOC
IC3100	A1
IC3202	A2
IC3203	A2
IC3204	A1
IC3500	A1
TP3100	A2
TP3101	C3
TP3102	B2
TP3103	B2
TP3104	B2
TP3200	A2
TP3201	A2
TP3202	A2
TP3204	A1
TP3205	B1
TP3207	B1
TP3208	B1
TP3209	B2
TP3210	B1
TP3211	B1
TP3213	B1
TP3300	C2
TP3301	C2
TP3400	B2
TP3401	C2
TP3402	B2
TP3403	C2
TP3404	B1
TP3405	C2
TP3406	C2
TP3407	C2
TP3408	C1
TP3409	C2
TP3410	C1
TP3411	C1

F5 V IN P.C. BOARD (VEP83553B)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3001	J5	IC3011	F3	IC3020	J4	IC3200	H3	IC3402	F1	IC3502	F4	IC3631	C3	IC3802	E2	IP3930	A1	Q3311	G3	Q3637	C3	TG3450	F2	TP3450	F2	TP3933	A3
IC3003	J4	IC3012	D5	IC3100	G4	IC3201	H2	IC3404	J1	IC3550	C4	IC3632	E4	IC3803	C2	P3001	G5	Q3401	J1	Q3704	D2	TG3550	C4	TP3550	B4	TP3980	A4
IC3004	G3	IC3013	K4	IC3101	H4	IC3250	H3	IC3407	J1	IC3551	C4	IC3633	C3	IC3804	D1	P3002	B1	Q3450	F2	Q3705	D2	TG3630	C3	TP3551	C4	TP3981	B4
IC3005	C4	IC3014	G3	IC3104	H4	IC3251	H3	IC3411	F1	IC3554	C4	IC3700	C2	IC3900	F4	Q3166	J4	Q3452	E3	Q3709	C3	TG3700	C2	TP3552	C4	VC3500	C4
IC3006	J4	IC3015	H1	IC3160	J3	IC3252	H3	IC3412	F1	IC3555	C4	IC3702	E3	IC3931	A1	Q3303	G2	Q3504	E2	Q3804	D1	TG3800	C1	TP3603	C3	VR3401	G1
IC3007	K2	IC3016	F3	IC3161	K3	IC3300	G2	IC3450	F3	IC3556	C4	IC3703	C2	IC3932	B1	Q3305	G3	Q3601	E3	Q3805	D1	TG3930	A4	TP3700	C2	VR3402	G1
IC3008	J4	IC3017	D4	IC3162	J3	IC3301	G2	IC3451	F2	IC3557	B4	IC3704	D2	IC3935	A2	Q3307	G2	Q3603	E3	Q3809	C2	TP3160	J3	TP3800	C1	VR3403	G1
IC3009	G3	IC3018	B4	IC3163	J2	IC3400	G1	IC3452	F2	IC3558	B4	IC3800	C2	IC3980	B3	Q3308	G2	Q3633	D3	TG3160	K3	TP3400	J1	TP3931	A3	VR3404	G1
IC3010	H1	IC3019	H2	IC3164	K2	IC3401	G1	IC3501	H1	IC3630	C3	IC3801	C2	IC3981	A3	Q3310	G2	Q3634	D3	TG3400	J1	TP3401	J1	TP3932	A3	VR3550	C4

CBA-9



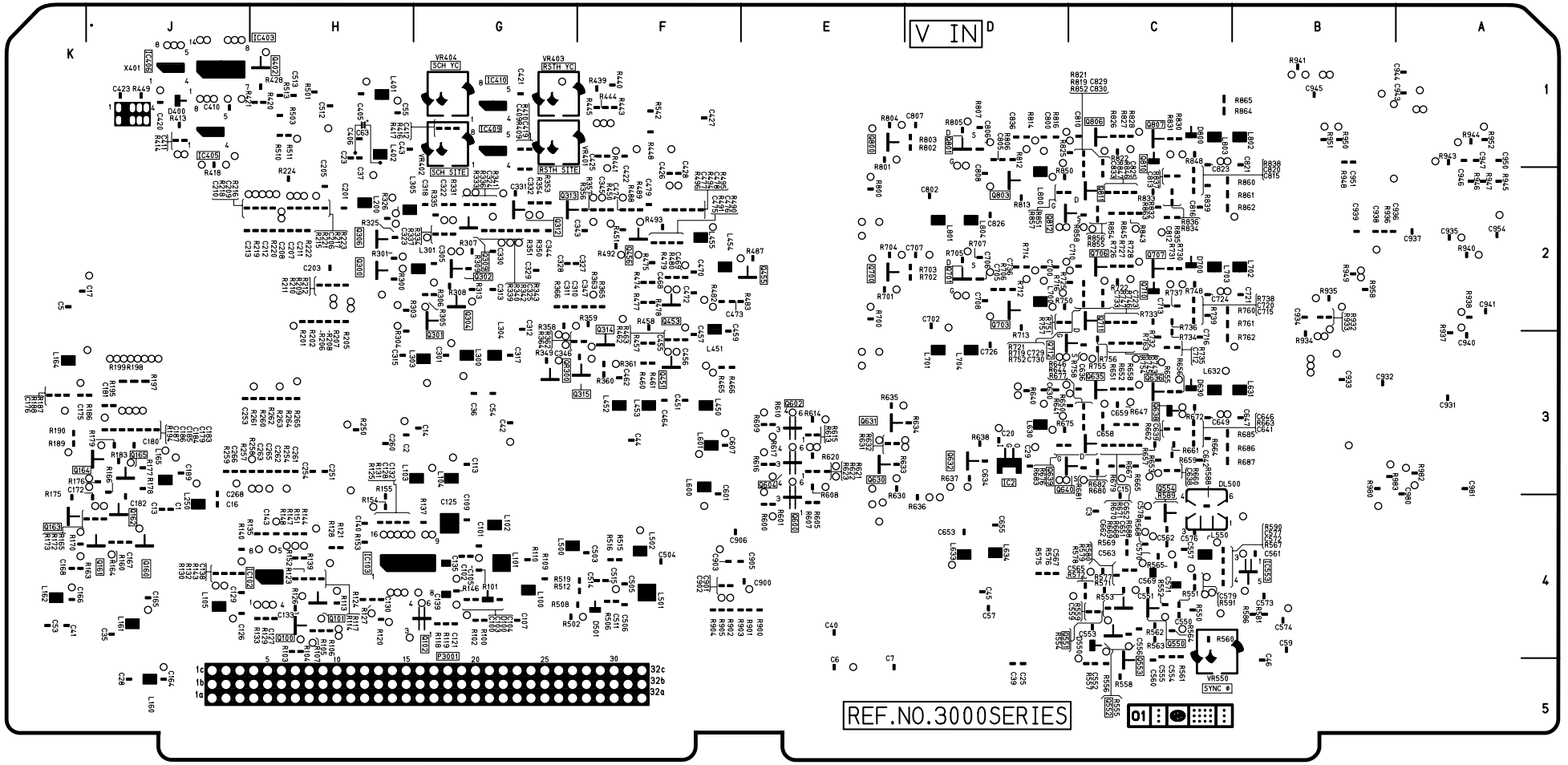
(COMPONENT SIDE)

F5 V IN P.C.BOARD (VEP83553B)

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC3002	D3	P3001	G5	Q3165	J3	Q3314	F3	Q3552	C4	Q3635	C3	Q3710	C2	Q3811	C2
IC3102	H4	Q3100	H4	Q3300	H2	Q3315	F3	Q3553	C5	Q3638	C3	Q3711	C2	Q3812	D2
IC3103	H4	Q3101	H4	Q3301	G2	Q3402	H1	Q3554	C4	Q3639	C3	Q3712	D3	QR3300	G3
IC3403	J1	Q3102	G4	Q3302	G2	Q3451	F3	Q3600	E4	Q3640	D3	Q3800	E1	VR3401	G1
IC3405	J1	Q3160	J4	Q3304	G2	Q3453	F2	Q3602	E3	Q3700	E2	Q3801	D1	VR3402	G1
IC3406	J1	Q3161	J4	Q3306	H2	Q3455	E2	Q3604	E3	Q3701	D2	Q3803	D2	VR3403	G1
IC3409	G1	Q3162	J4	Q3309	G2	Q3456	F2	Q3630	E3	Q3703	D2	Q3806	C1	VR3404	G1
IC3410	G1	Q3163	K4	Q3312	G2	Q3550	C4	Q3631	E3	Q3706	C2	Q3807	C1	VR3550	C4
IC3553	B4	Q3164	J3	Q3313	G2	Q3551	C4	Q3632	D3	Q3707	C2	Q3810	C1		

CBA-10



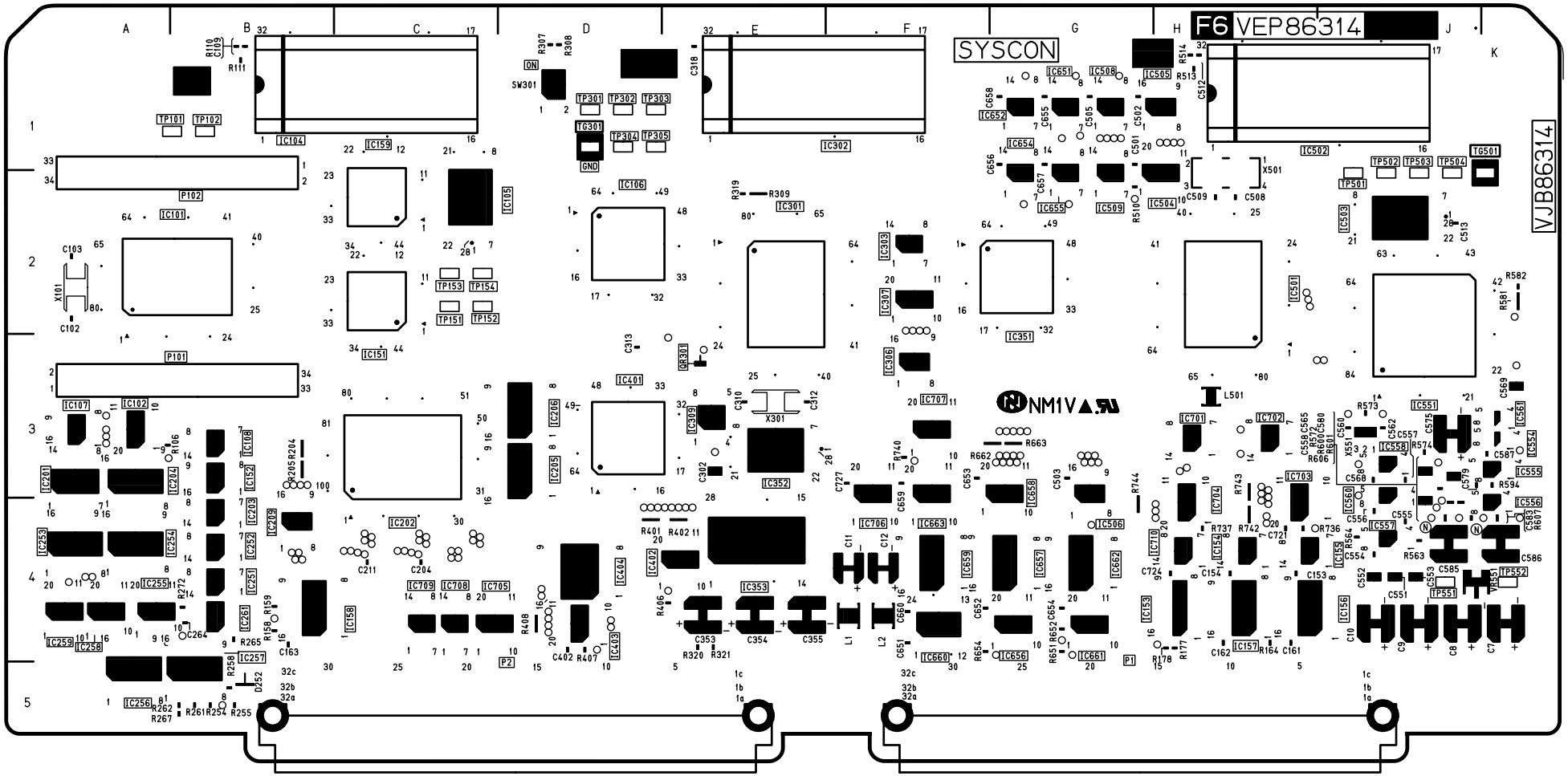
(FOIL SIDE)

F6 SYSCON P.C. BOARD (VEP86314B)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC101	B2	IC153	H4	IC203	B4	IC255	A4	IC306	F3	IC404	D4	IC551	J3	IC652	G1	IC662	G4	IC708	C4	TG501	K1	TP303	D1	VR551	K4
IC102	A3	IC154	H4	IC204	A3	IC256	A5	IC307	F2	IC501	H2	IC554	K3	IC654	G1	IC663	F3	IC709	C4	TP101	B1	TP304	D1		
IC104	C1	IC155	H4	IC205	D3	IC257	B5	IC309	E3	IC502	H1	IC555	K3	IC655	G1	IC701	H3	IC710	H4	TP102	B1	TP305	D1		
IC105	C2	IC156	H4	IC206	D3	IC258	A4	IC351	G2	IC503	J2	IC556	K3	IC656	G4	IC702	H3	P1	G5	TP151	C2	TP501	J1		
IC106	D2	IC157	H4	IC209	B4	IC259	A4	IC352	E3	IC504	H2	IC557	J4	IC657	G4	IC703	H3	P2	D5	TP152	C2	TP502	J1		
IC107	A3	IC158	B4	IC251	B4	IC261	B4	IC353	E4	IC505	H1	IC558	J3	IC658	G3	IC704	H3	P101	B3	TP153	C2	TP503	J1		
IC108	B3	IC159	C2	IC252	B4	IC301	E2	IC401	D3	IC506	G3	IC560	J3	IC659	F4	IC705	C4	P102	B2	TP154	C2	TP504	J1		
IC151	C2	IC201	A3	IC253	A4	IC302	E1	IC402	E4	IC508	G1	IC561	K3	IC660	F4	IC706	F3	QR301	E3	TP301	D1	TP551	J4		
IC152	B3	IC202	C3	IC254	A4	IC303	F2	IC403	D4	IC509	G1	IC651	G1	IC661	G4	IC707	F3	TG301	D1	TP302	D1	TP552	J4		

CBA-11



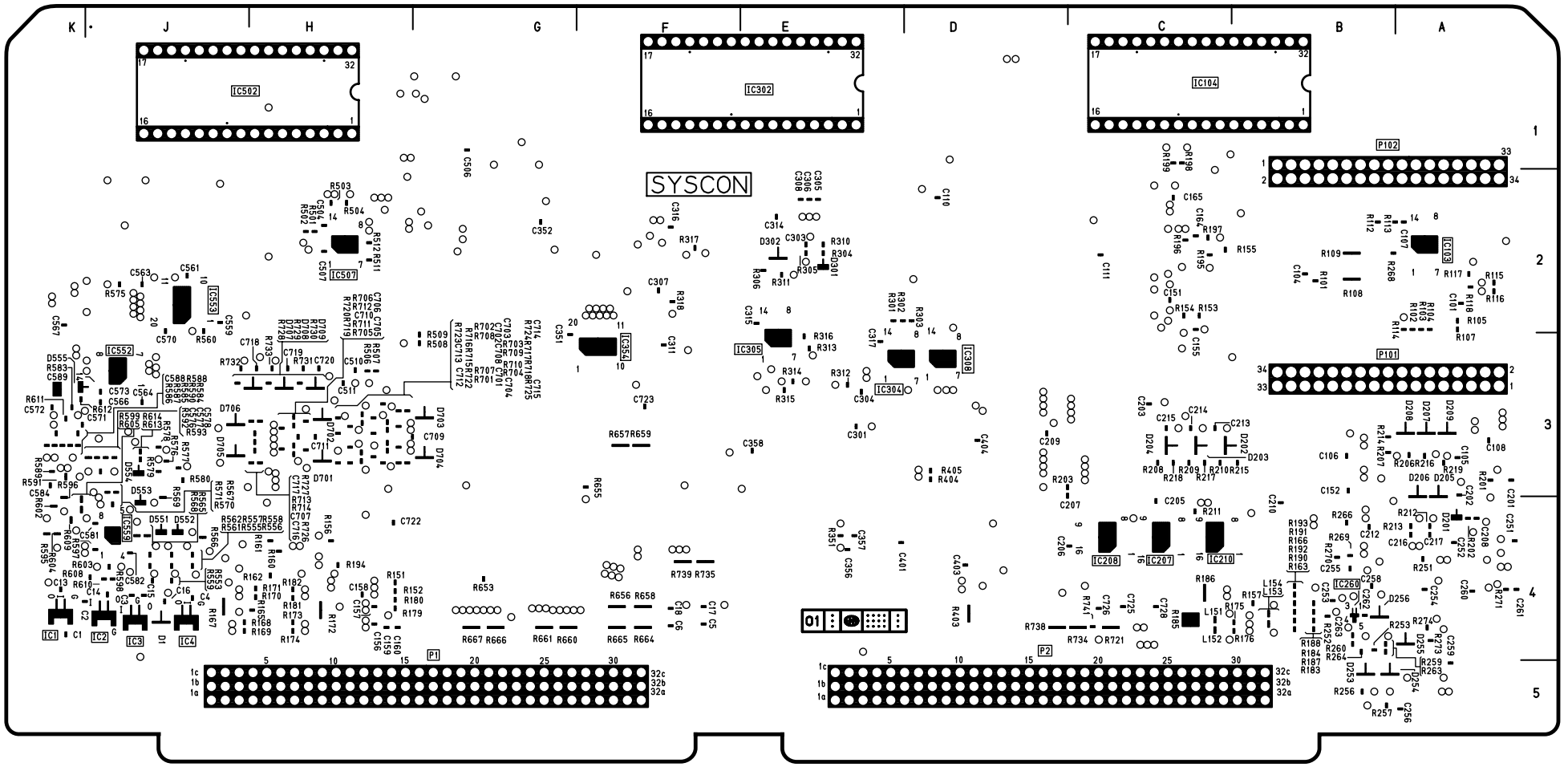
(COMPONENT SIDE)

F6 SYSCON P.C. BOARD (VEP86314B)

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC
IC1	K4	IC260	B4	IC553	J2
IC2	J4	IC302	E1	IC559	J4
IC3	J4	IC304	E3	P1	G5
IC4	J4	IC305	E3	P2	D5
IC103	A2	IC308	D3	P101	B3
IC104	C1	IC354	F3	P102	B1
IC207	C4	IC502	H1		
IC208	C4	IC507	H2		
IC210	C4	IC552	J3		

CBA-12



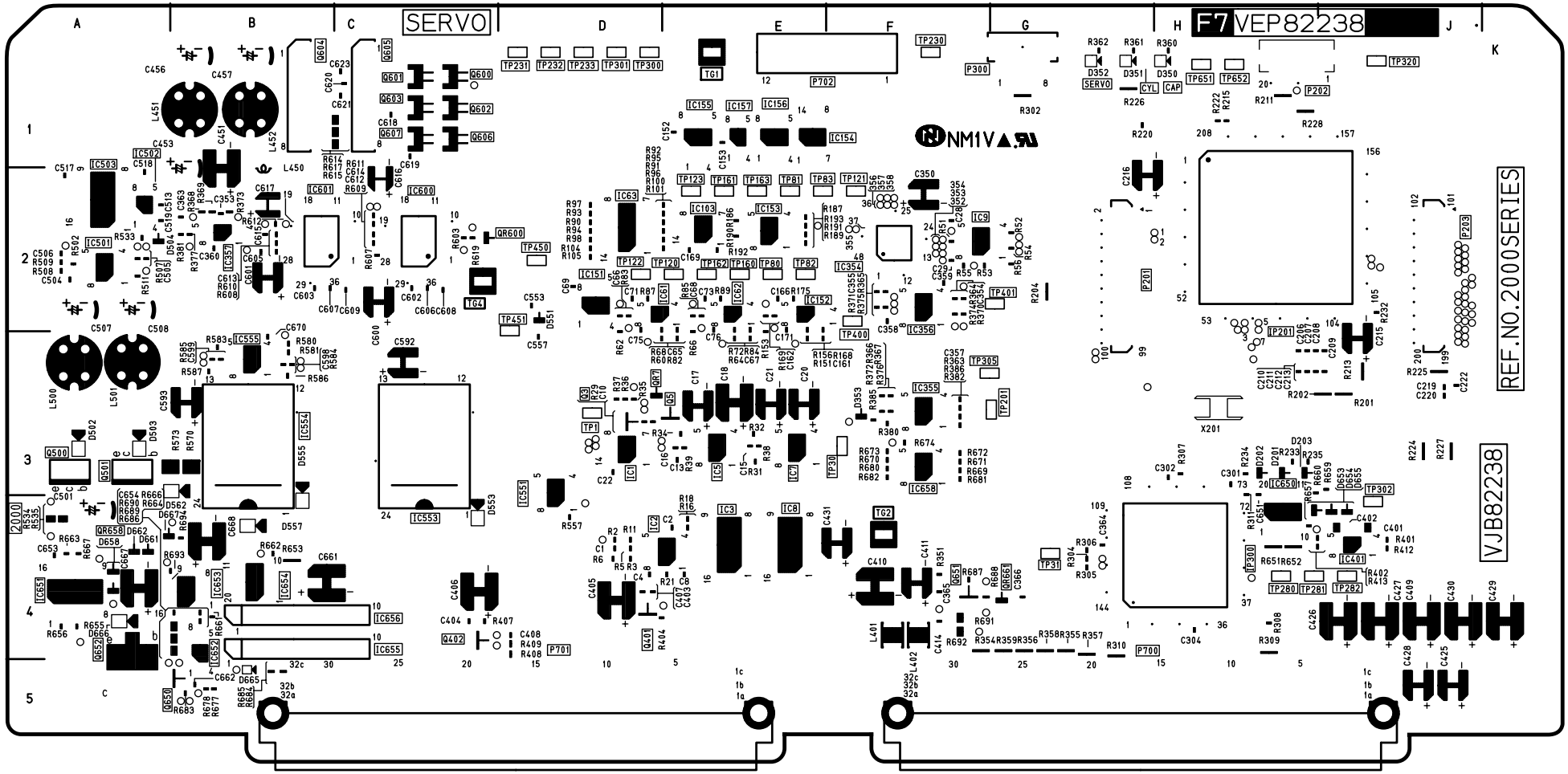
(FOIL SIDE)

F7 SERVO P.C. BOARD (VEP82238B)

COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC2001	D3	IC2063	D2	IC2354	F2	IC2554	B3	IC2655	C4	P2700	G5	Q2600	C1	Q2651	F4	TP2001	D3	TP2122	D2	TP2232	D1	TP2320	J1
IC2002	E4	IC2103	E2	IC2356	F2	IC2555	B3	IC2656	C4	P2701	D5	Q2601	C1	Q2652	A4	TP2030	F3	TP2123	E2	TP2233	D1	TP2400	F2
IC2003	E4	IC2151	D2	IC2357	B2	IC2600	C2	IC2658	F3	P2702	E1	Q2602	C1	QR2007	D3	TP2031	G4	TP2160	E2	TP2280	H4	TP2401	G2
IC2005	E3	IC2152	E2	IC2401	J4	IC2601	B2	IP2201	H2	Q2003	D3	Q2603	C1	QR2600	C2	TP2080	E2	TP2161	E2	TP2281	H4	TP2450	D2
IC2007	E3	IC2153	E2	IC2501	A2	IC2650	H3	IP2300	H4	Q2005	E3	Q2604	B1	QR2658	A4	TP2081	E2	TP2162	E2	TP2282	J4	TP2451	D2
IC2008	E4	IC2154	E1	IC2502	A2	IC2651	A4	P2201	G2	Q2401	D4	Q2605	C1	QR2661	G4	TP2082	E2	TP2163	E2	TP2300	D1	TP2651	H1
IC2009	F2	IC2155	E1	IC2503	A2	IC2652	B4	P2202	H1	Q2402	C4	Q2606	C1	TG2001	E1	TP2083	E2	TP2201	G3	TP2301	D1	TP2652	H1
IC2061	D2	IC2156	E1	IC2551	D3	IC2653	B4	P2203	J2	Q2500	A3	Q2607	C1	TG2002	F4	TP2120	E2	TP2230	F1	TP2302	J4		
IC2062	E2	IC2157	E1	IC2553	C3	IC2654	B4	P2300	G1	Q2501	A3	Q2650	B5	TG2004	C2	TP2121	F2	TP2231	D1	TP2305	G3		

CBA-13



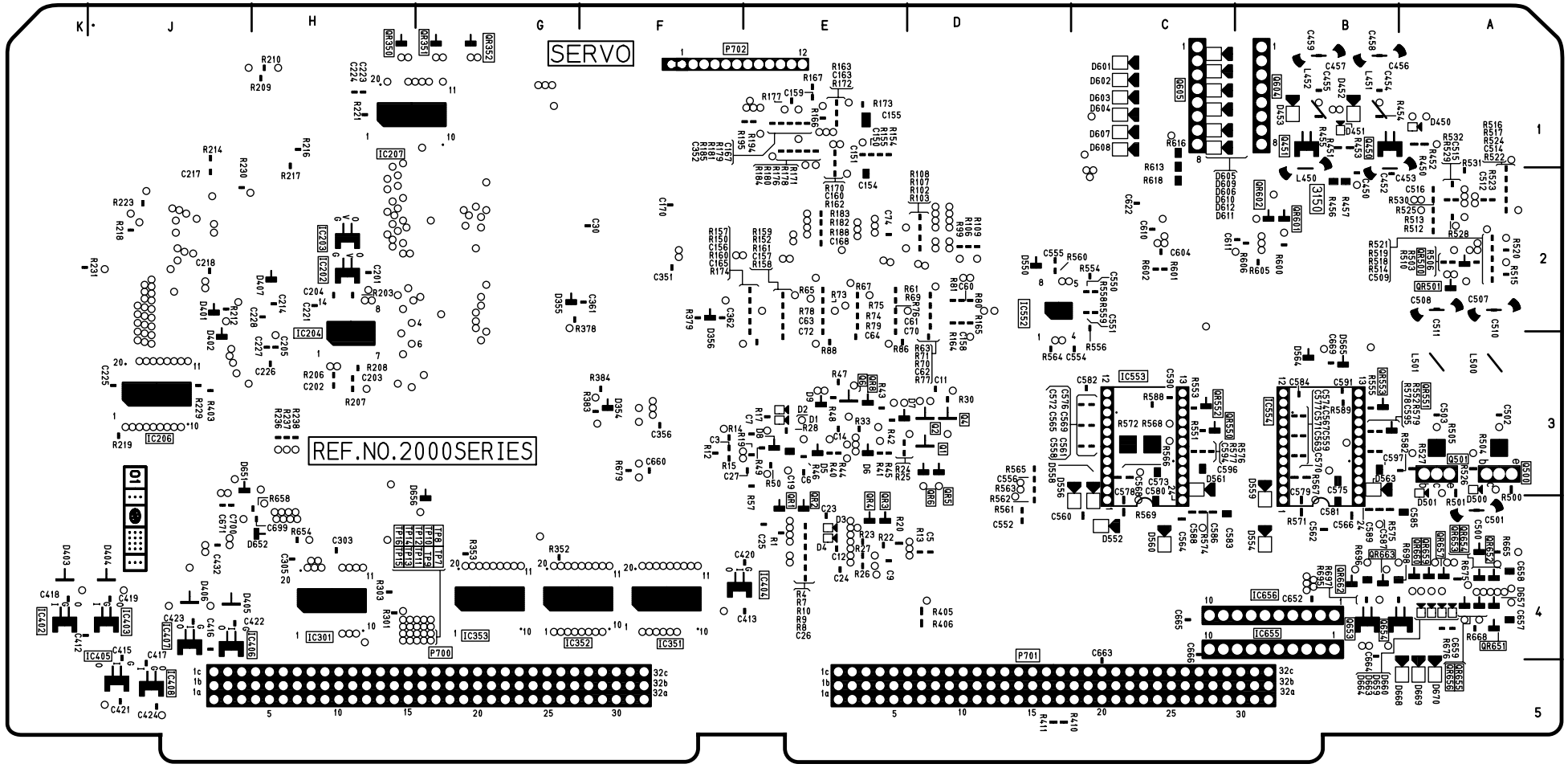
(COMPONENT SIDE)

F7 SERVO P.C. BOARD (VEP82238B)

FOIL SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC2202	H2	IC2402	K4	IC2554	B3	Q2450	B1	QR2002	E4	QR2500	A2	QR2652	A4	QR2663	B4	TP2015	H4
IC2203	H2	IC2403	J4	IC2655	B4	Q2451	B1	QR2003	E4	QR2501	A2	QR2653	A4	TP2007	G4	TP2016	H4
IC2204	H2	IC2404	E4	IC2656	B4	Q2500	A3	QR2004	E4	QR2550	C3	QR2654	A4	TP2008	G4		
IC2206	J3	IC2405	J5	P2701	D5	Q2501	A3	QR2005	D3	QR2551	B3	QR2655	A4	TP2009	G4		
IC2207	H1	IC2406	J4	P2702	F1	Q2604	B1	QR2006	D3	QR2552	C3	QR2656	A4	TP2010	G4		
IC2301	H4	IC2407	J4	Q2001	D3	Q2605	C1	QR2006	E3	QR2553	B3	QR2657	A4	TP2011	G4		
IC2351	F4	IC2408	J5	Q2002	D3	Q2653	B4	QR2350	H1	QR2601	B2	QR2659	A4	TP2012	G4		
IC2352	F4	IC2552	D2	Q2004	D3	Q2654	A4	QR2351	G1	QR2602	B2	QR2660	A4	TP2013	H4		
IC2353	G4	IC2553	C3	Q2006	E3	QR2001	E4	QR2352	G1	QR2651	A4	QR2662	B4	TP2014	H4		

CBA-14

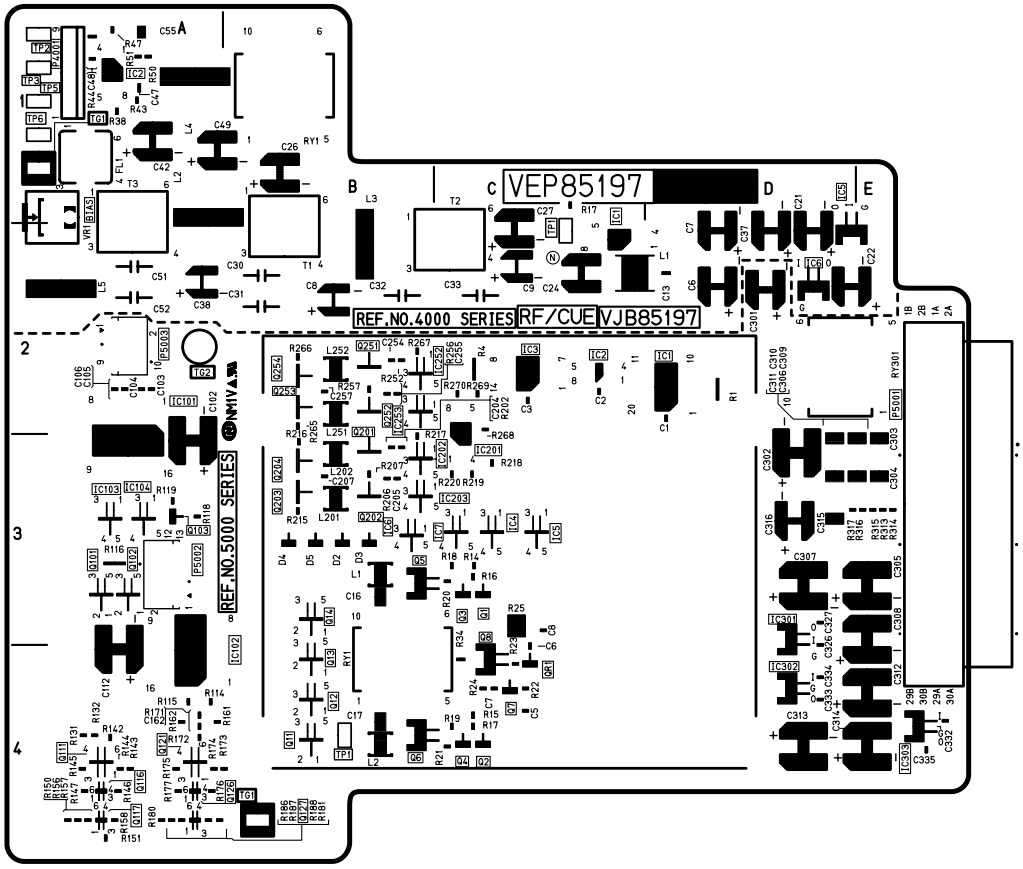


(FOIL SIDE)

RF CUE P.C. BOARD (VEP85197A)

COMPONENT SIDE

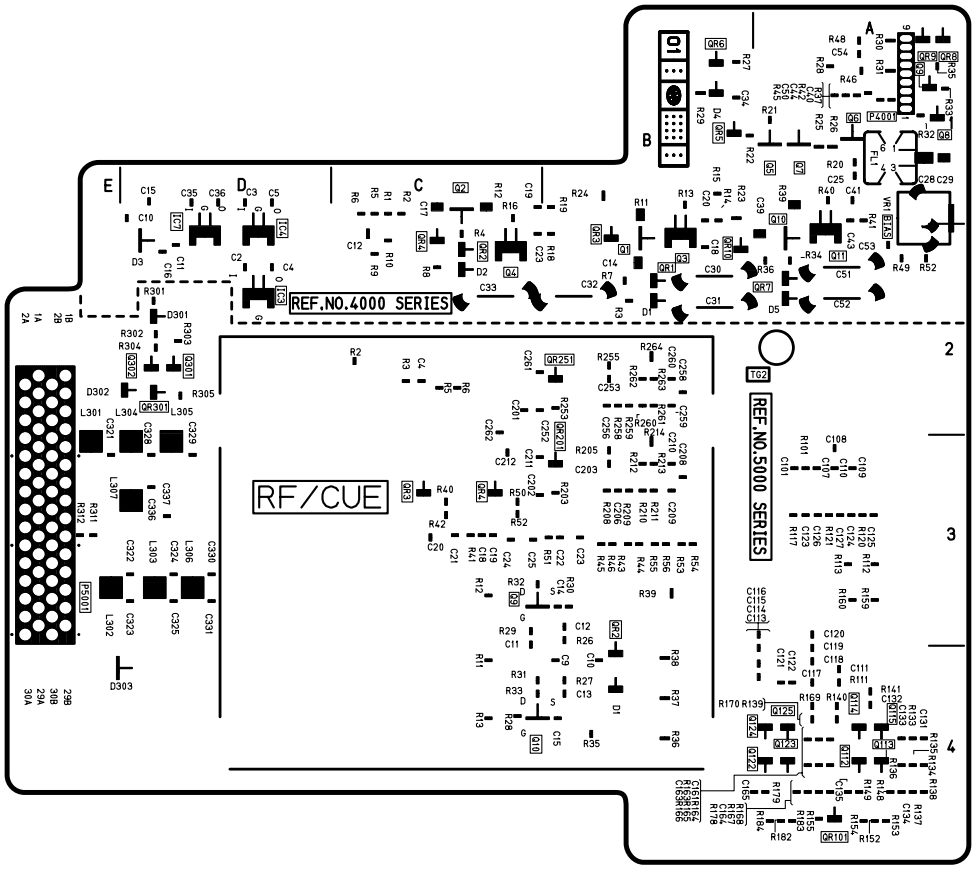
REF	LOC	REF	LOC
IC4001	C2	Q5007	C4
IC4002	A1	Q5008	C4
IC4005	D2	Q5011	B4
IC4006	D2	Q5012	B4
IC5001	D2	Q5013	B4
IC5002	C2	Q5014	B3
IC5003	C2	Q5101	A3
IC5004	C3	Q5102	A3
IC5005	C3	Q5103	A3
IC5006	B3	Q5111	A4
IC5007	C3	Q5116	A4
IC5012	A3	Q5117	A4
IC5101	A2	Q5121	A4
IC5103	A3	Q5126	A4
IC5104	A3	Q5127	A4
IC5201	C3	Q5202	B3
IC5202	B3	Q5203	B3
IC5203	B3	Q5204	B3
IC5252	B2	Q5251	B2
IC5253	B2	Q5252	B2
IC5301	D3	Q5253	B2
IC5302	D4	Q5254	B2
IC5303	D4	QR5001	C4
P4001	A1	T4001	C2
P5001	E2	TG4001	A1
P5002	A3	TG5001	B4
P5003	A2	TG5002	A2
Q5001	C3	TP4002	A1
Q5002	C4	TP4003	A1
Q5003	C3	TP4005	A1
Q5004	C4	TP4006	A1
Q5005	B3	TP5001	B4
Q5006	B4	VR4001	A1



(COMPONENT SIDE)

FOIL SIDE

REF	LOC	REF	LOC
IC4003	D2	QR4007	A2
IC4004	D2	QR4008	A1
IC4007	D2	QR4009	A1
P4001	A1	QR4010	B2
P5001	E3	QR5002	B3
Q4001	B2	QR5003	C3
Q4002	A1	QR5004	C3
Q4003	A1	QR5101	A4
Q4004	C2	QR5201	B3
Q4005	C1	QR5251	B2
Q4006	A1	QR5301	D2
Q4008	A1	TG5002	A2
Q4009	B2	VR4001	A1
Q4010	A2		
Q4011	A2		
Q5009	C3		
Q5010	C4		
Q5112	A4		
Q5113	A4		
Q5114	A4		
Q5115	A4		
Q5122	A4		
Q5123	A4		
Q5124	A4		
Q5125	A4		
Q5301	D2		
Q5302	D2		
QR4001	B2		
QR4002	C2		
QR4003	B2		
QR4004	C2		
QR4005	B1		
QR4006	B1		

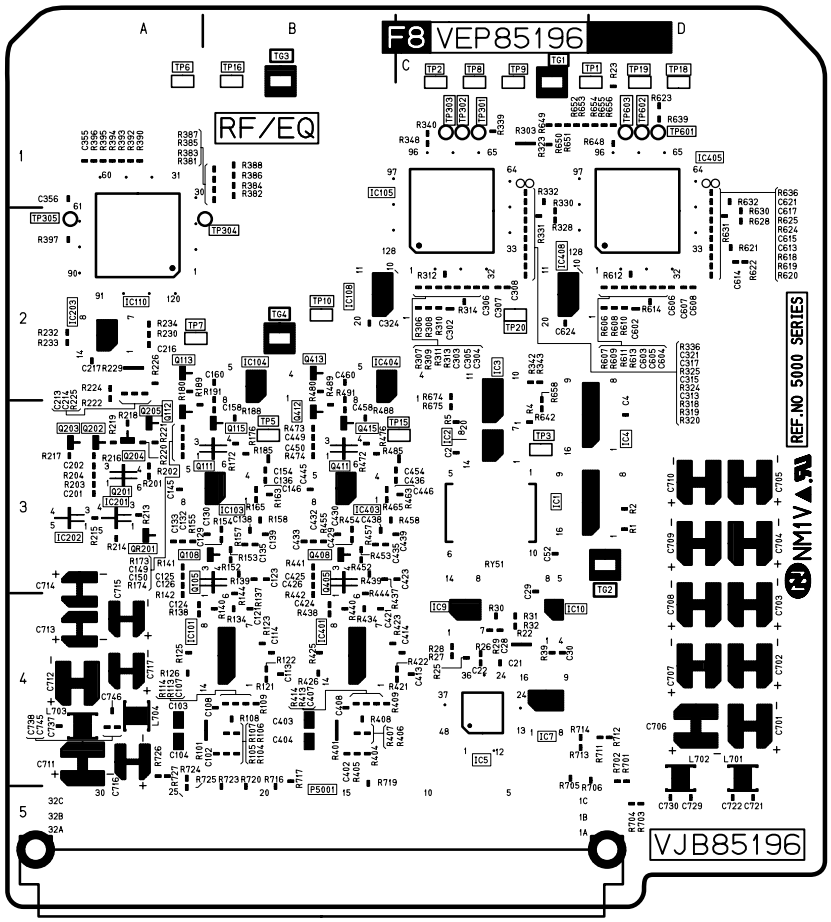


(FOIL SIDE)

F8 RF EQ P.C. BOARD (VEP85196A)

COMPONENT SIDE

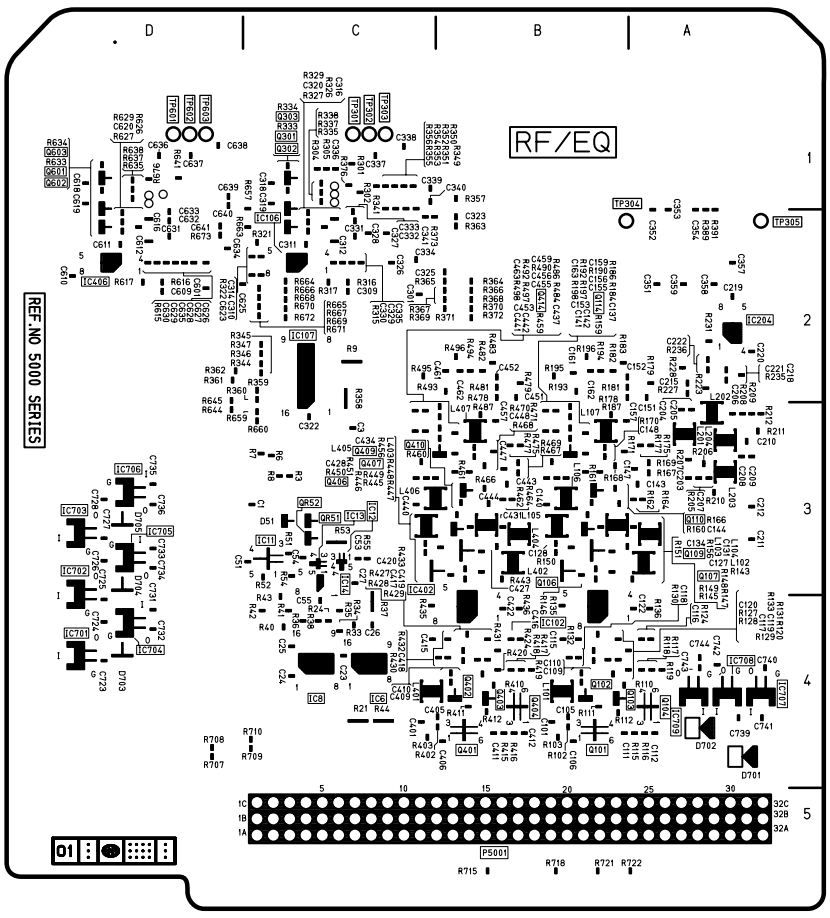
REF	LOC	REF	LOC
IC5001	D3	Q5405	B3
IC5002	C3	Q5408	B3
IC5003	C2	Q5411	B3
IC5004	D3	Q5412	B3
IC5005	C4	Q5413	B2
IC5007	C4	Q5415	B3
IC5009	C4	QR5201	A3
IC5010	C4	TG5001	B5
IC5101	B4	TG5002	D3
IC5103	B3	TG5003	B1
IC5104	B2	TG5004	B2
IC5105	C1	TP5001	D1
IC5108	B2	TP5002	C1
IC5110	A2	TP5003	C3
IC5201	A3	TP5005	B3
IC5202	A3	TP5006	A1
IC5203	A2	TP5007	A2
IC5401	B4	TP5008	C1
IC5403	B3	TP5009	C1
IC5404	B2	TP5010	B2
IC5405	D1	TP5015	C3
IC5408	C2	TP5016	B1
P5001	B5	TP5018	D1
Q5105	B3	TP5019	D1
Q5108	B3	TP5020	C2
Q5111	B3	TP5301	C1
Q5112	A3	TP5302	C1
Q5113	A2	TP5303	C1
Q5115	B3	TP5304	B2
Q5201	A3	TP5305	A2
Q5202	A3	TP5601	D1
Q5203	A3	TP5602	D1
Q5204	A3	TP5603	D1
Q5205	A3		



(COMPONENT SIDE)

FOIL SIDE

REF	LOC	REF	LOC
IC5006	C4	Q5401	B4
IC5008	C4	Q5402	B4
IC5011	C3	Q5403	B4
IC5012	C3	Q5404	B4
IC5013	C3	Q5406	C3
IC5014	C3	Q5407	C3
IC5102	B4	Q5409	C3
IC5106	C2	Q5410	B3
IC5107	C2	Q5414	B3
IC5204	A1	Q5601	D1
IC5402	B4	Q5602	D2
IC5406	D2	Q5603	D1
IC5701	D4	QR5051	C3
IC5702	D3	QR5052	C3
IC5703	D3	TP5301	C1
IC5704	D4	TP5302	C1
IC5705	D3	TP5303	C1
IC5706	D3	TP5304	B1
IC5707	A4	TP5305	A1
IC5708	A4	TP5601	D1
IC5709	A4	TP5602	D1
P5001	B5	TP5603	D1
Q5101	B4		
Q5102	B4		
Q5103	B4		
Q5104	A4		
Q5106	B3		
Q5107	B3		
Q5109	B3		
Q5110	B3		
Q5114	B3		
Q5301	C1		
Q5302	C2		
Q5303	C1		



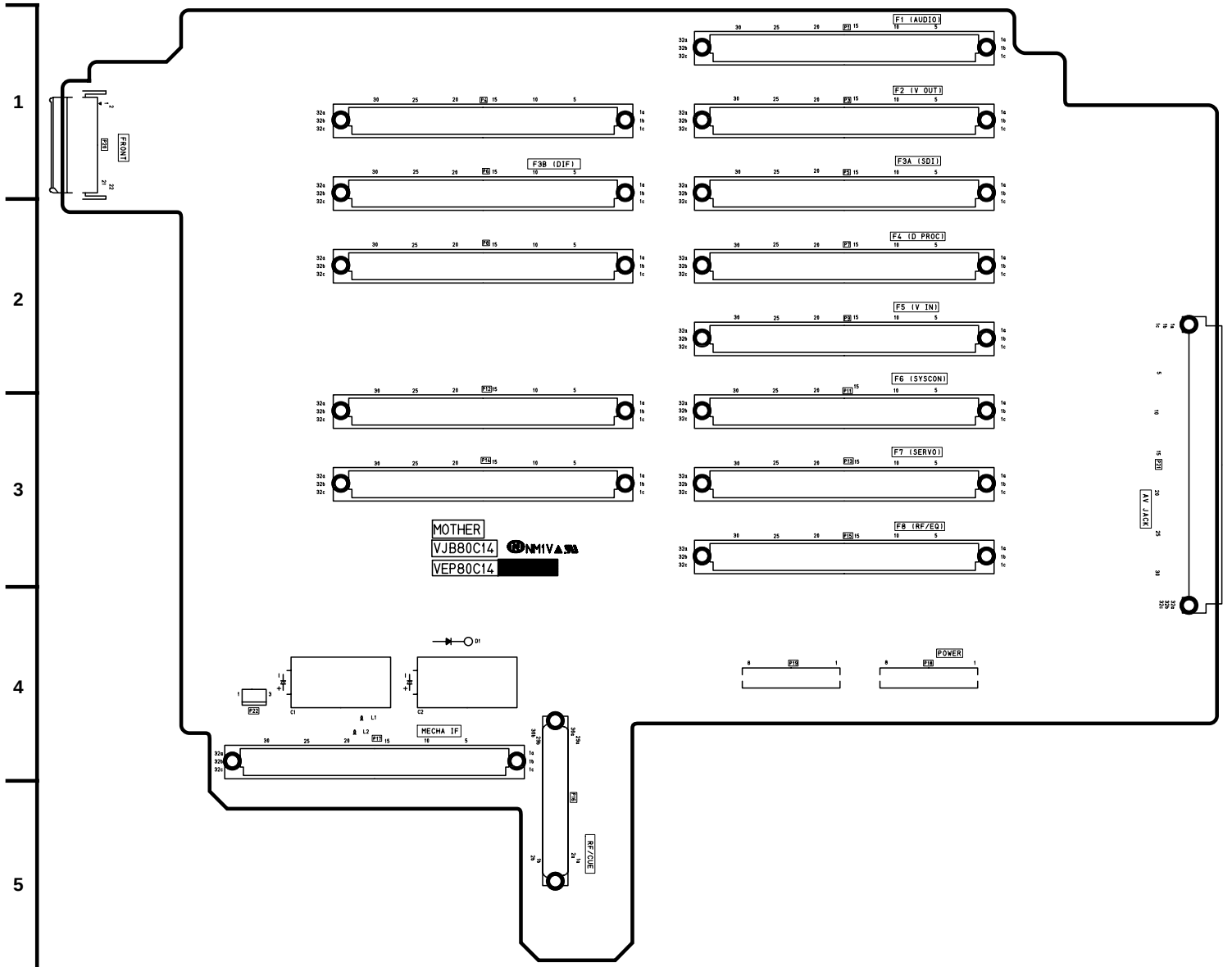
(FOIL SIDE)

MOTHER P.C. BOARD (VEP80C14A)

COMPONENT SIDE

REF	LOC
P1	E1
P3	E1
P4	C1
P5	E1
P6	C1
P7	E2
P8	C2
P9	E2
P11	E3
P12	C3
P13	E3
P14	C3
P15	E3
P16	C5
P17	B4
P18	E4
P19	D4
P20	A1
P21	F3
P22	B4

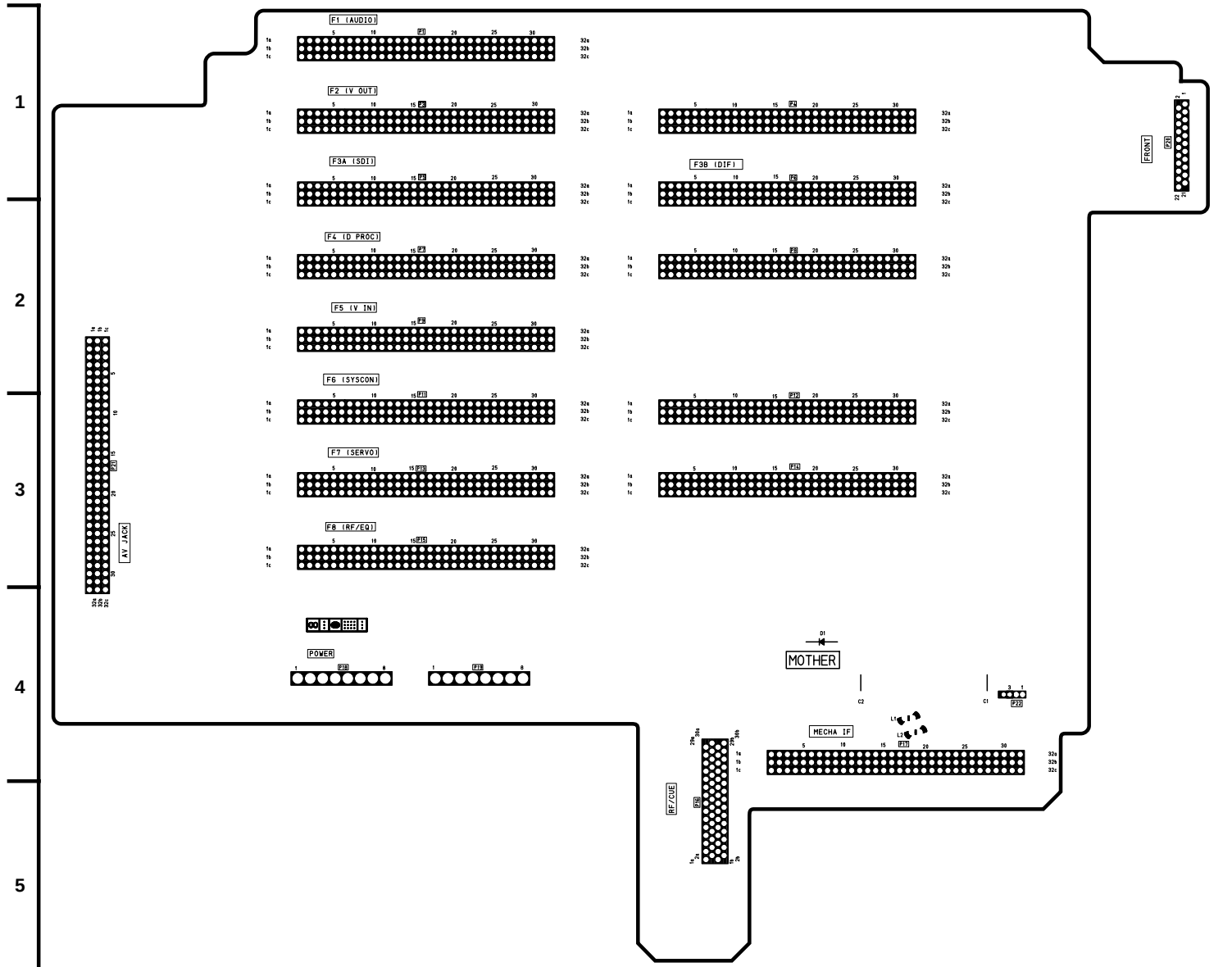
CBA-17



(COMPONENT SIDE)

MOTHER P.C. BOARD (VEP80C14A)

CBA-18



(FOIL SIDE)

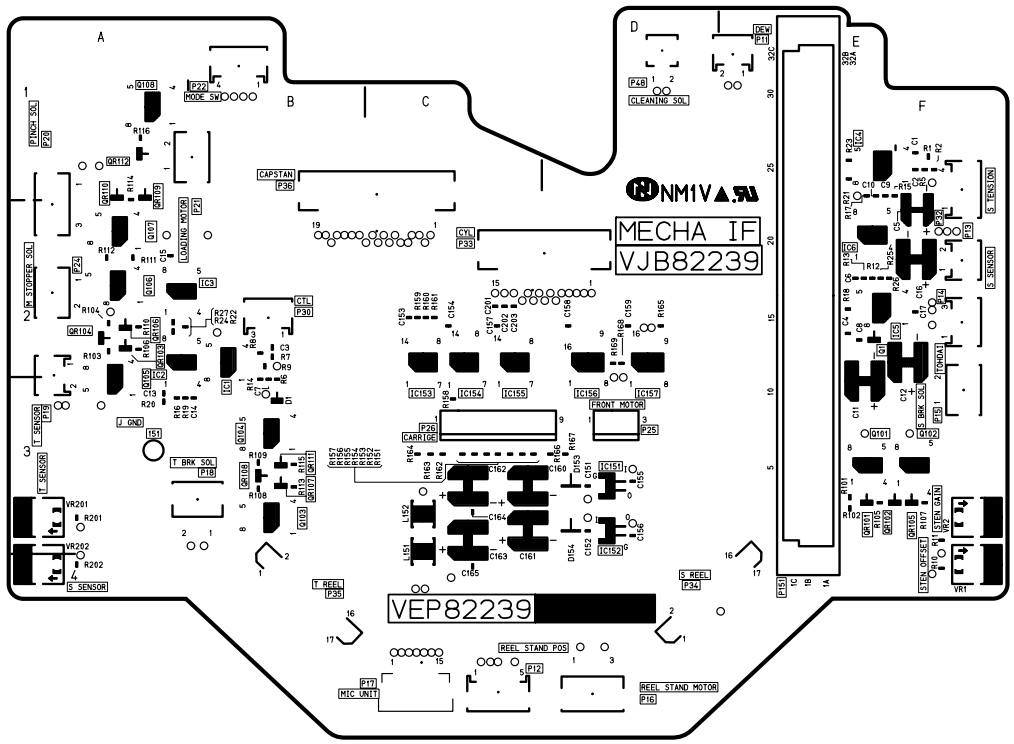
FOIL SIDE

REF	LOC
P1	E1
P3	E1
P4	C1
P5	E1
P6	C1
P7	E2
P8	C2
P9	E2
P11	E3
P12	C3
P13	E3
P14	C3
P15	E3
P16	C5
P17	B4
P18	E4
P19	D4
P20	A1
P21	F3
P22	B4

MECHA IF P.C. BOARD (VEP82239A)

COMPONENT SIDE

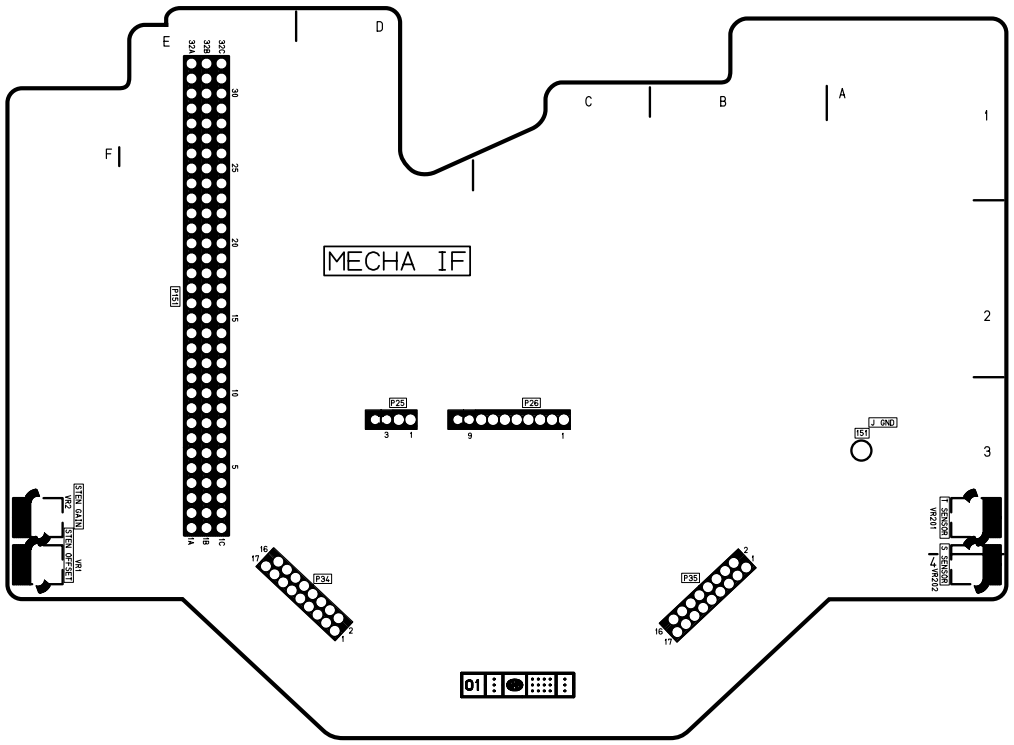
REF	LOC	REF	LOC
IC1	B2	P33	C2
IC2	A2	P34	D4
IC3	A2	P35	B4
IC4	E1	P36	B1
IC5	A2	P48	D1
IC5	E2	P151	E4
IC6	E2	Q1	E2
IC151	D3	Q101	E3
IC152	D3	Q102	F3
IC153	C2	Q103	B3
IC154	C2	Q104	B3
IC155	C2	Q106	A2
IC156	D2	Q107	A2
IC157	D2	Q108	A1
P11	E1	QR101	E3
P12	C4	QR102	E3
P13	F2	QR103	A2
P14	F2	QR104	A2
P15	F3	QR105	F3
P16	D4	QR106	A2
P17	C4	QR107	B3
P18	B3	QR108	B3
P19	A2	QR109	A1
P20	A1	QR110	A1
P21	B1	QR111	B3
P22	B1	QR112	A1
P24	A2	VR1	F4
P25	D3	VR2	F3
P26	C3	VR201	A3
P30	B2	VR202	A3
P32	F1		



(COMPONENT SIDE)

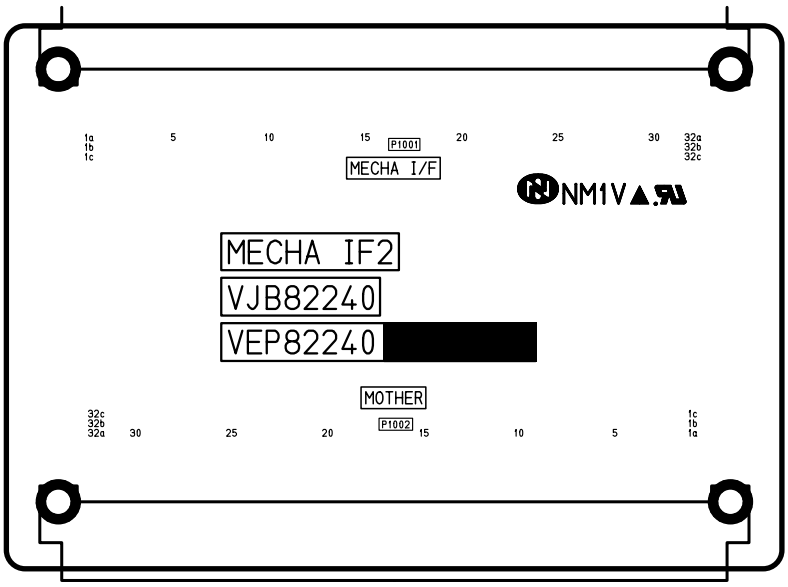
FOIL SIDE

REF	LOC
P151	E2
P25	D3
P26	C3
P34	D4
P35	B4
VR1	F4
VR2	F3
VR201	A3
VR202	A4

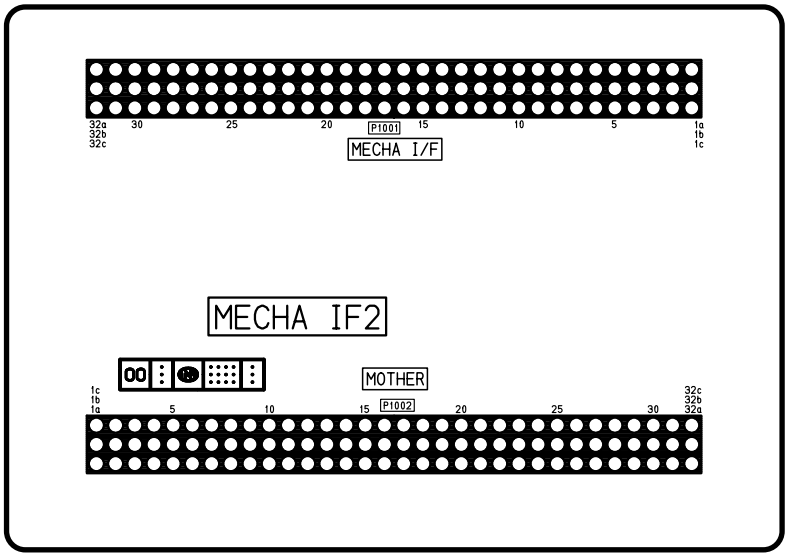


(FOIL SIDE)

MECHA IF2 P.C. BOARD (VEP82240A)



(COMPONENT SIDE)



(FOIL SIDE)

POWER1 P.C. BOARD (VEP81221B)

COMPONENT SIDE

REF	LOC
IC1001	C3
IC1101	C4
IC1102	D4
IC1103	C3
IC1201	D2
IC1202	D3
IC1203	D4
IC1205	D1
P1103	A1
P1201	E2
P1202	E3
Q1001	B1
Q1002	D2
Q1003	D2
Q1004	D3
Q1102	B2
Q1103	B2
VR1102	C4
VR1201	D3

JAPAN ONLY

⚠ 警 告

感電注意

AC100V の加わっている活電部（充電部、活電部）に直接触れないでください。

+ 感電ややけどの可能性があります。

① ⚠ 警 告 ⚠ 印の部品は安全上重要な部品です。交換するときは、安全及び性能維持のため必ず指定の部品をご使用ください。

② ▭ 内は充電部です。AC100Vが加わっておりますので点検、修理のときは感電しないよう充分ご注意ください。

③ 部品交換時には、電源プラグをぬいてから行ってください。

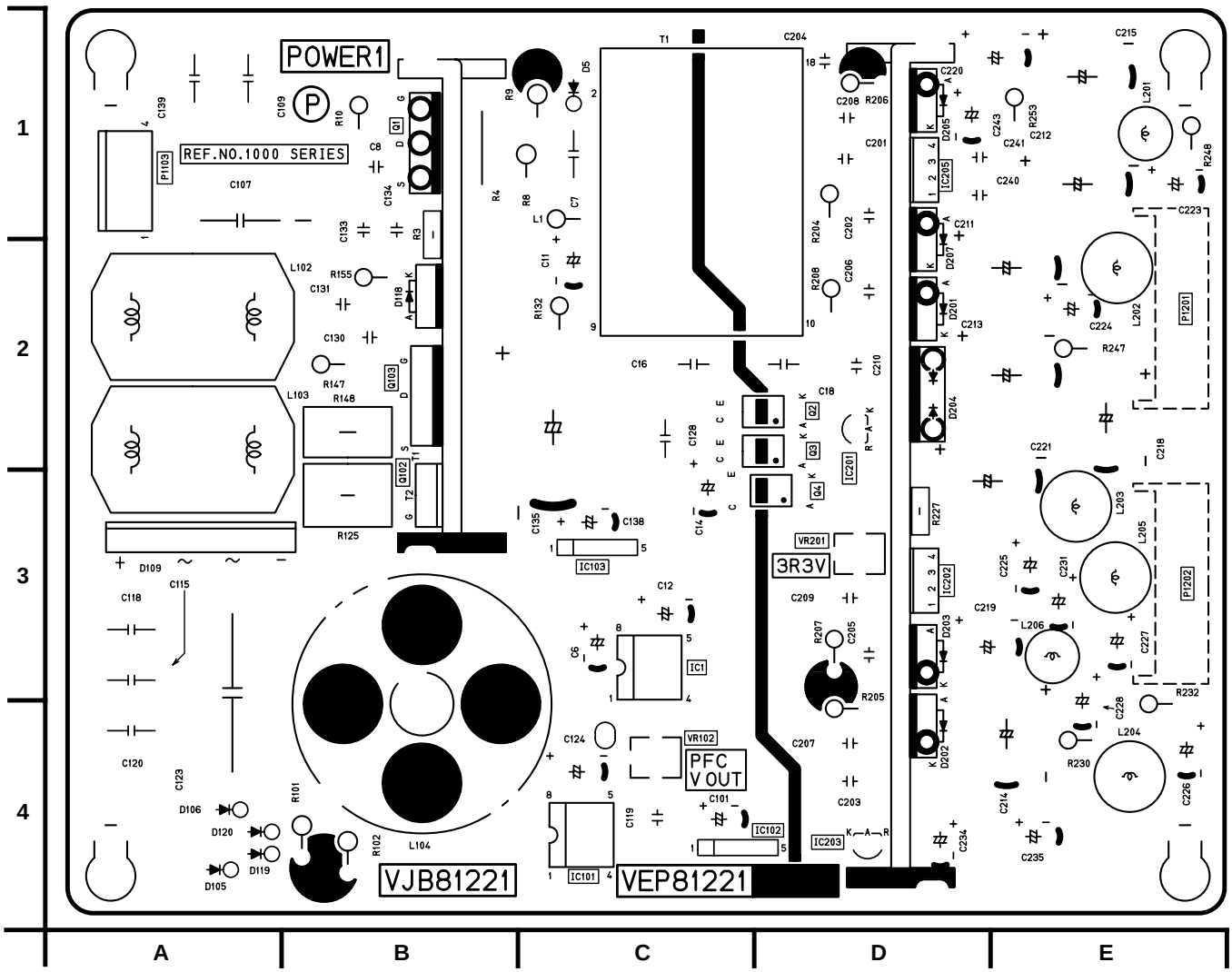
④ 一次側（充電部）の電圧・波形は、一次側アースを基準に測定してください。

⑤ 部品品番は、部品価格表で確認の上交換ください。

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS. USE ONLY THE SAME TYPE.

CAUTION

THE ▭ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT. PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.



(COMPONENT SIDE)

POWER1 P.C. BOARD (VEP81221B)

FOIL SIDE

REF	LOC
IC1001	C3
IC1101	C4
IC1102	C4
IC1103	C3
IC1201	D2
IC1202	D3
IC1203	D4
IC1204	D4
IC1205	D1
P1103	A1
P1201	F2
P1202	F3
Q1001	B1
Q1002	C2
Q1003	C2
Q1004	C3
Q1101	B4
Q1102	B3
Q1103	B2
Q1201	D4
Q1202	D4
Q1203	D4
Q1204	B3
QR1001	C3
QR1002	C3
QR1101	B4
QR1102	C4
QR1103	C4
QR1104	C4
QR1105	C4
QR1201	D3
QR1202	D3
QR1203	F4
QR1204	F4
QR1205	F4
QR1206	F4
QR1207	F4

JAPAN ONLY

⚠ 警 告

感電注意

AC100V の加わっている活電部（充電部、活電部）に直接触れないでください。

+ 感電ややけどの可能性があります。

① ⚠ 警 告 ⚠ 印の部品は安全上重要な部品です。交換するときは、安全及び性能維持のため必ず指定の部品をご使用ください。

② ▭ 内は充電部です。AC100Vが加わっておりますので点検、修理のときは感電しないよう充分ご注意ください。

③ 部品交換時には、電源プラグをぬいてから行ってください。

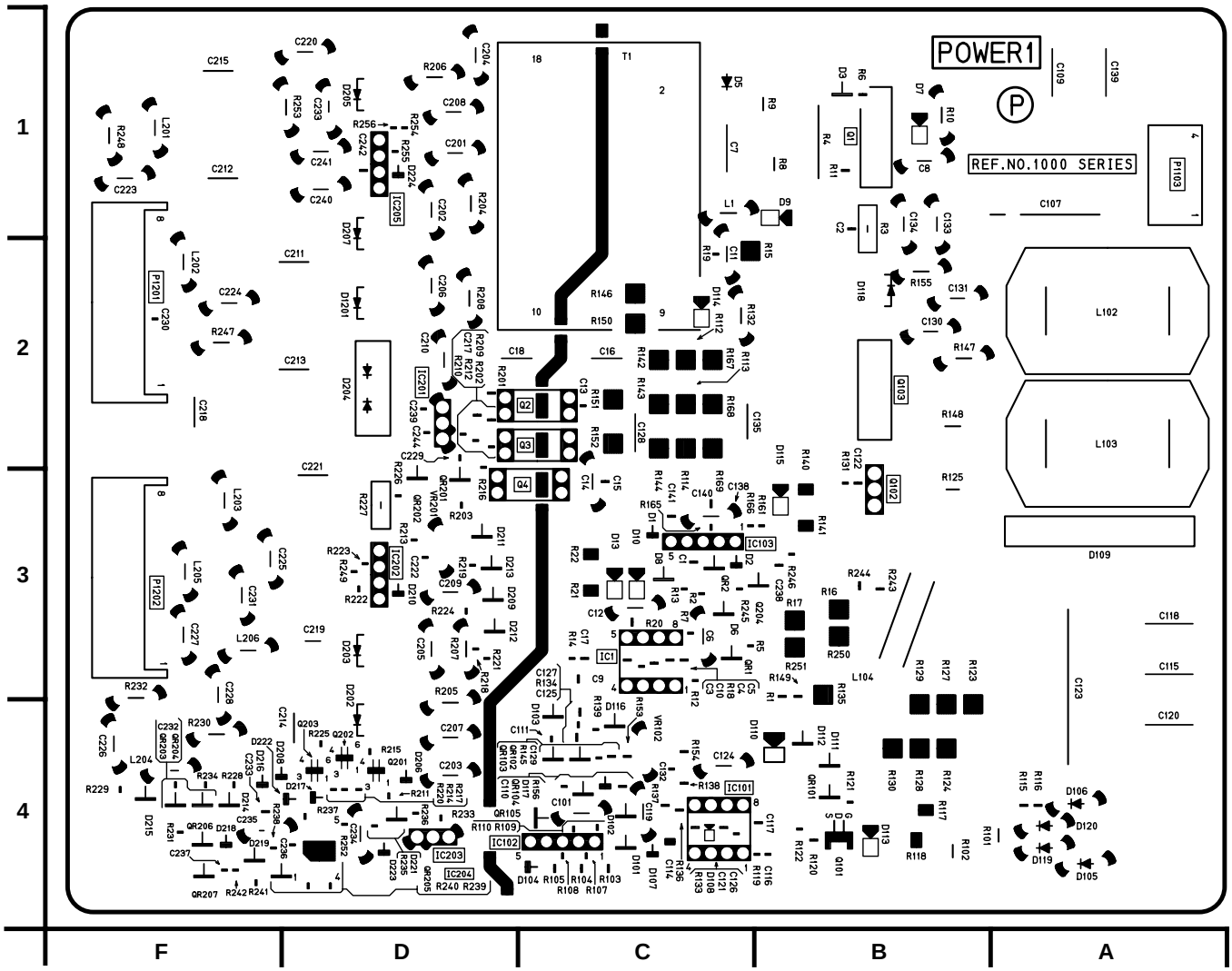
④ 一次側（充電部）の電圧・波形は、一次側アースを基準に測定してください。

⑤ 部品品番は、部品価格表で確認の上交換ください。

IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK ⚠ HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY.
WHEN REPLACING ANY OF THESE COMPONENTS. USE ONLY THE SAME TYPE.

CAUTION

THE ▭ MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT. PAY ATTENTION NOT TO RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

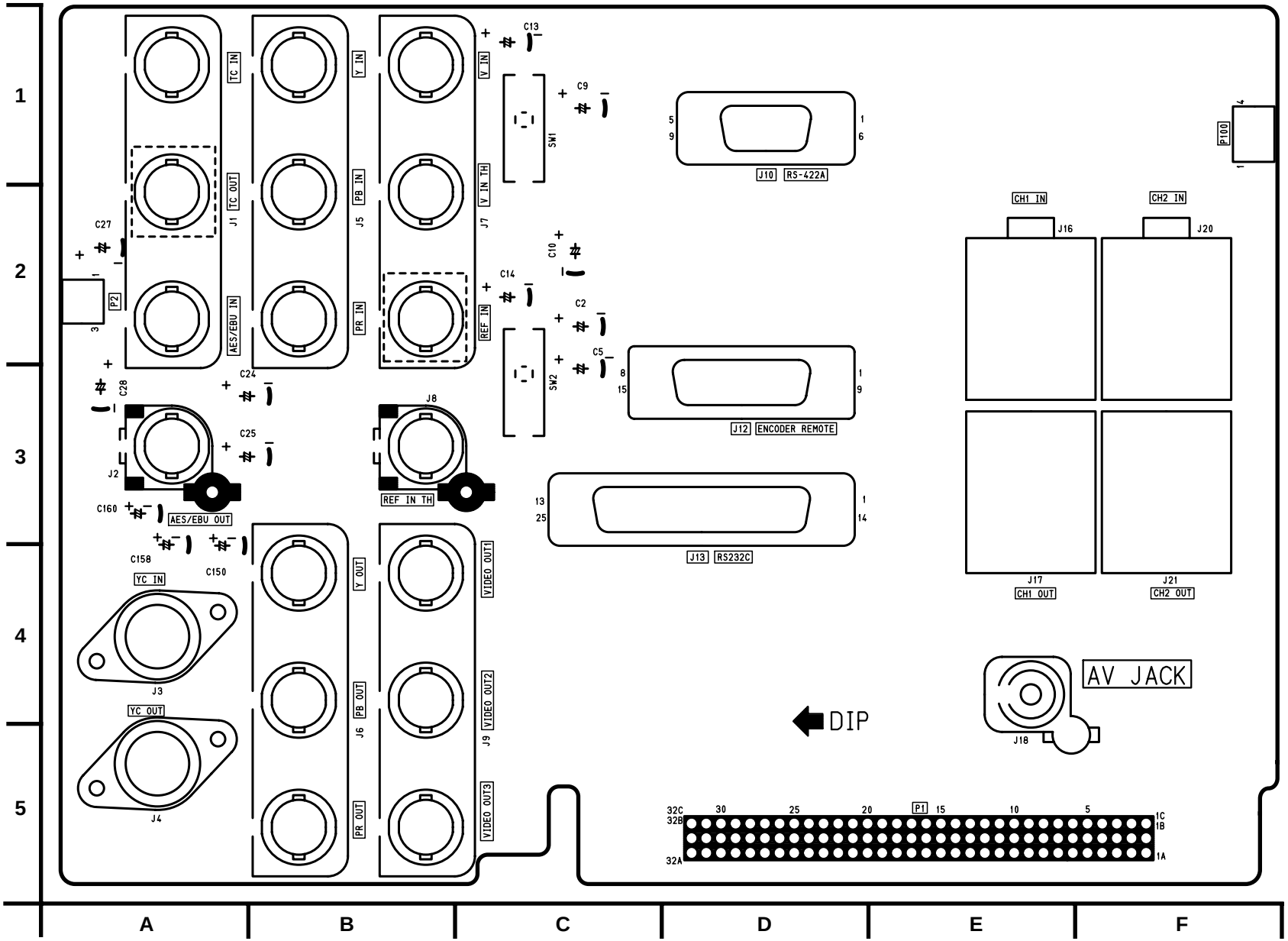


(FOIL SIDE)

AV JACK P.C. BOARD (VEP80C13A)

COMPONENT SIDE

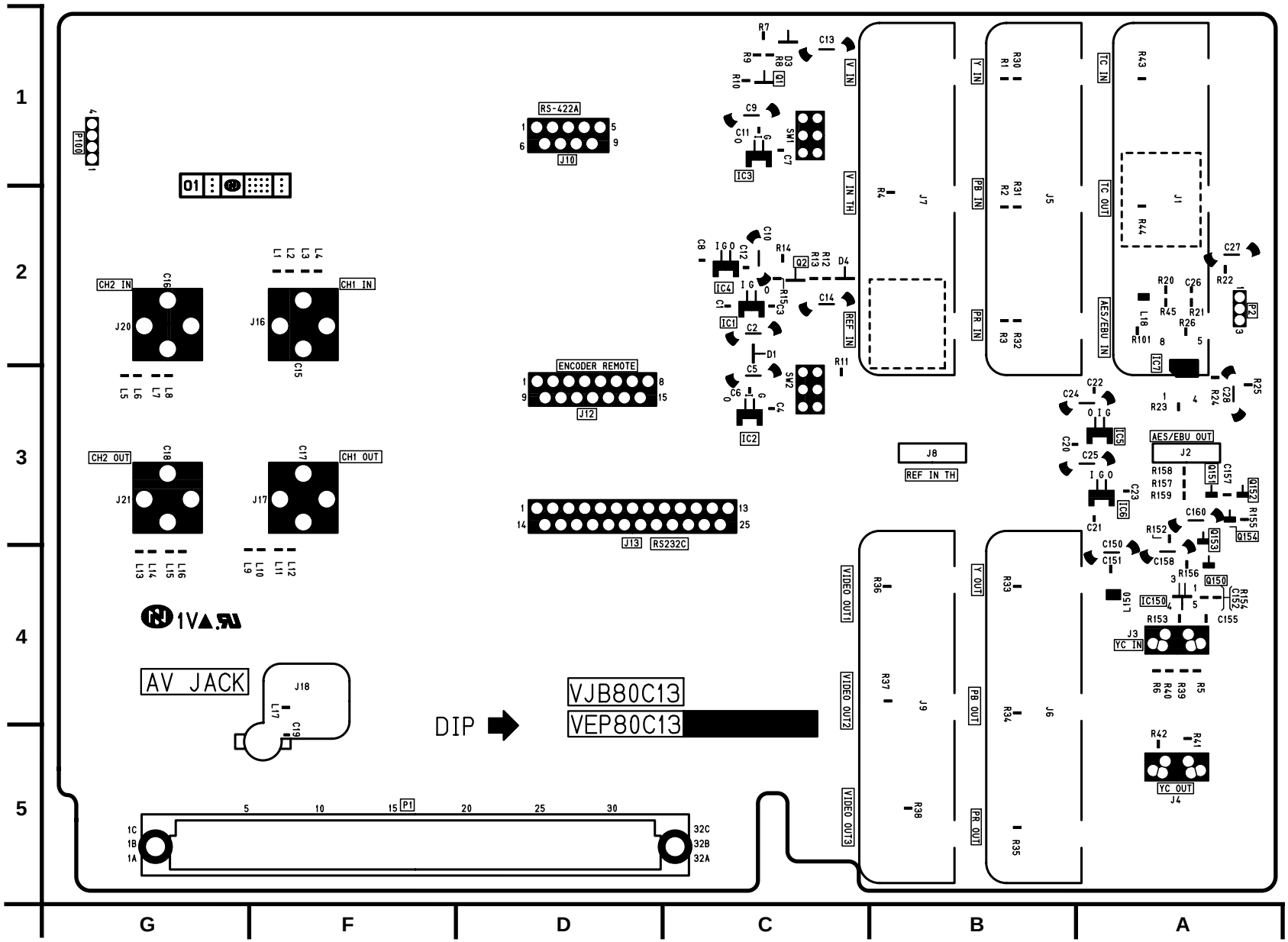
REF	LOC
P1	E5
P2	A2
P100	F1



(COMPONENT SIDE)

CBA-23

AV JACK P.C. BOARD (VEP80C13A)



FOIL SIDE

REF	LOC
IC1	C2
IC2	C3
IC3	C1
IC4	C2
IC5	A3
IC6	A3
IC7	A2
IC150	A4
P1	F5
P2	A2
P100	G1
Q1	C1
Q2	C2
Q150	A4
Q151	A3
Q152	A3
Q153	A3
Q154	A3

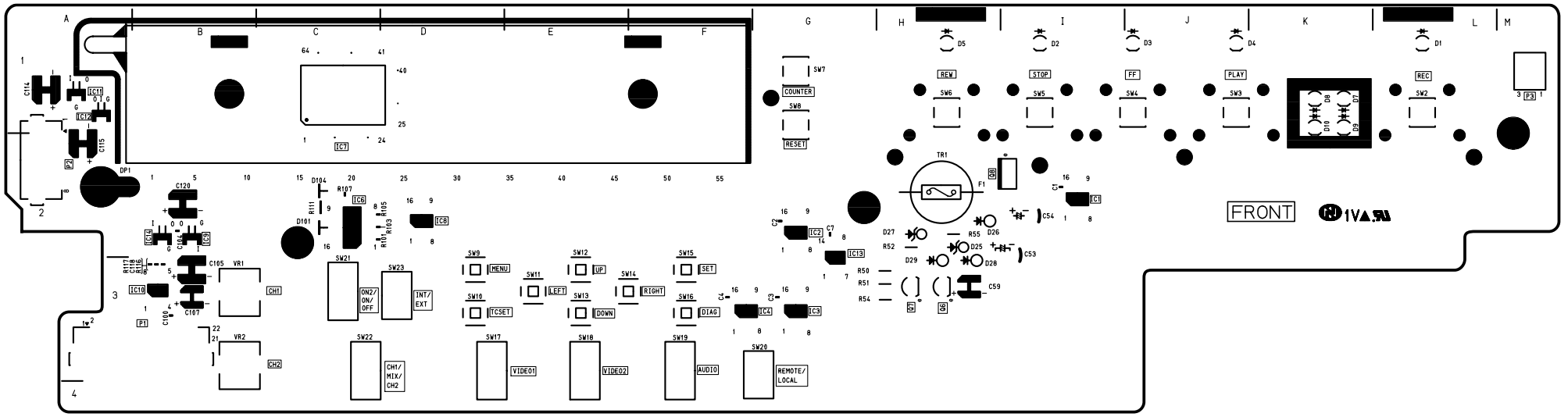
CBA-24

(FOIL SIDE)

FRONT P.C. BOARD (VEP86315A)

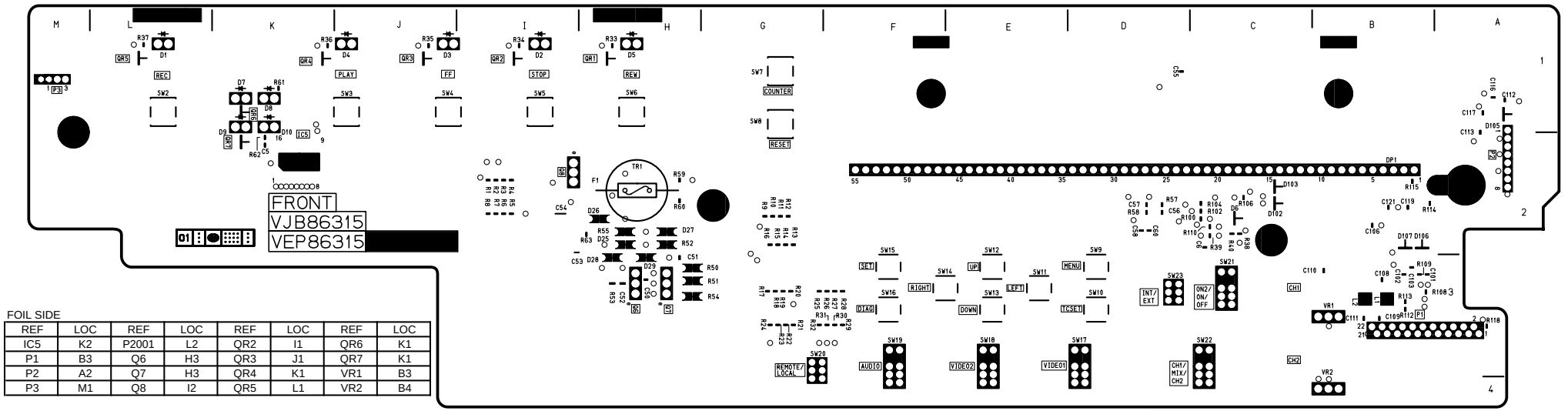
COMPONENT SIDE

REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC1	I1	IC6	C2	IC10	B3	IC14	B2	P2001	L2	VR1	B3
IC2	G2	IC7	C2	IC11	A1	P1	B3	Q6	H3	VR2	B3
IC3	G3	IC8	D2	IC12	A1	P2	A2	Q7	H3		
IC4	F3	IC9	B2	IC13	G2	P3	M1	Q8	I2		



(COMPONENT SIDE)

CBA-25

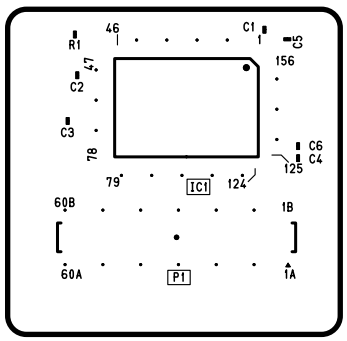


FOIL SIDE

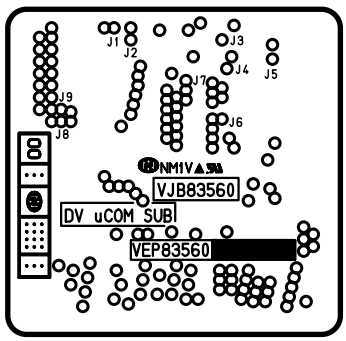
REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC5	K2	P2001	L2	QR2	I1	QR6	K1
P1	B3	Q6	H3	QR3	J1	QR7	K1
P2	A2	Q7	H3	QR4	K1	VR1	B3
P3	M1	Q8	I2	QR5	L1	VR2	B4

(FOIL SIDE)

DV u COM P.C. BOARD (VEP83560A)



(COMPONENT SIDE)



(FOIL SIDE)

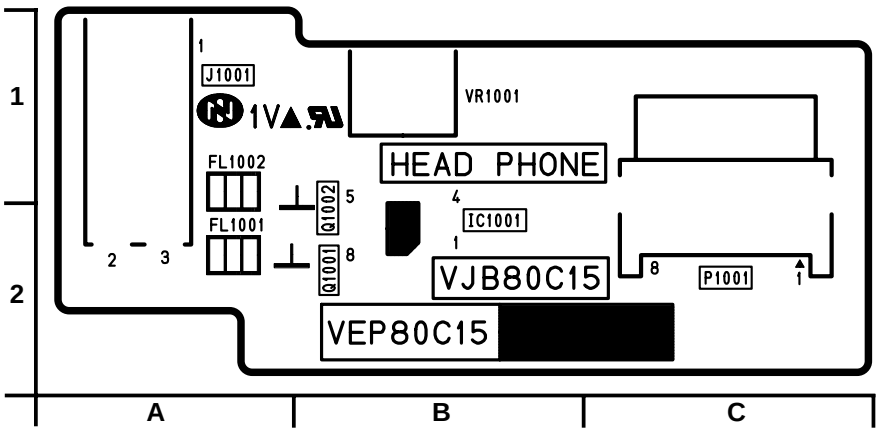
HP P.C. BOARD (VEP80C15A)

COMPONENT SIDE

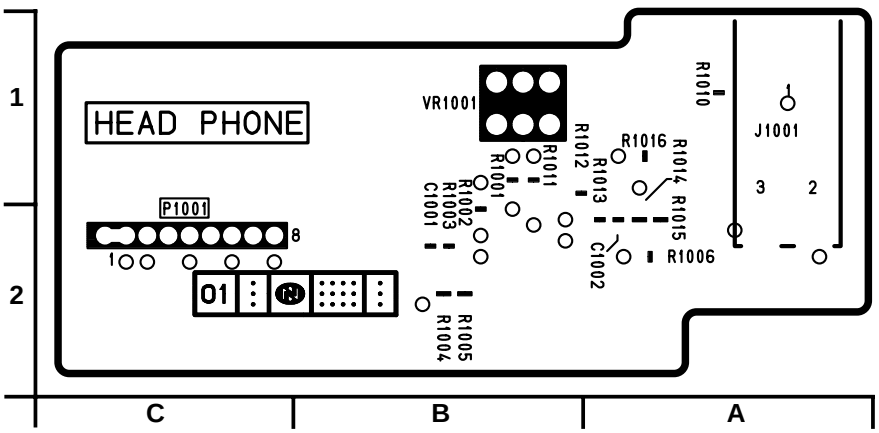
REF	LOC
IC1001	B2
Q1001	A2
Q1002	A2
VR1001	B1
P1001	C2

FOIL SIDE

REF	LOC
P1001	C2
VR1001	B1



(COMPONENT SIDE)



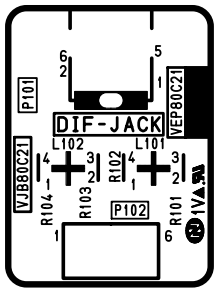
(FOIL SIDE)

F3B DIF / DIF JACK P.C.BOARD (VEP83559A / VEP80C21A) (AJ-YAD455P)

COMPONENT SIDE

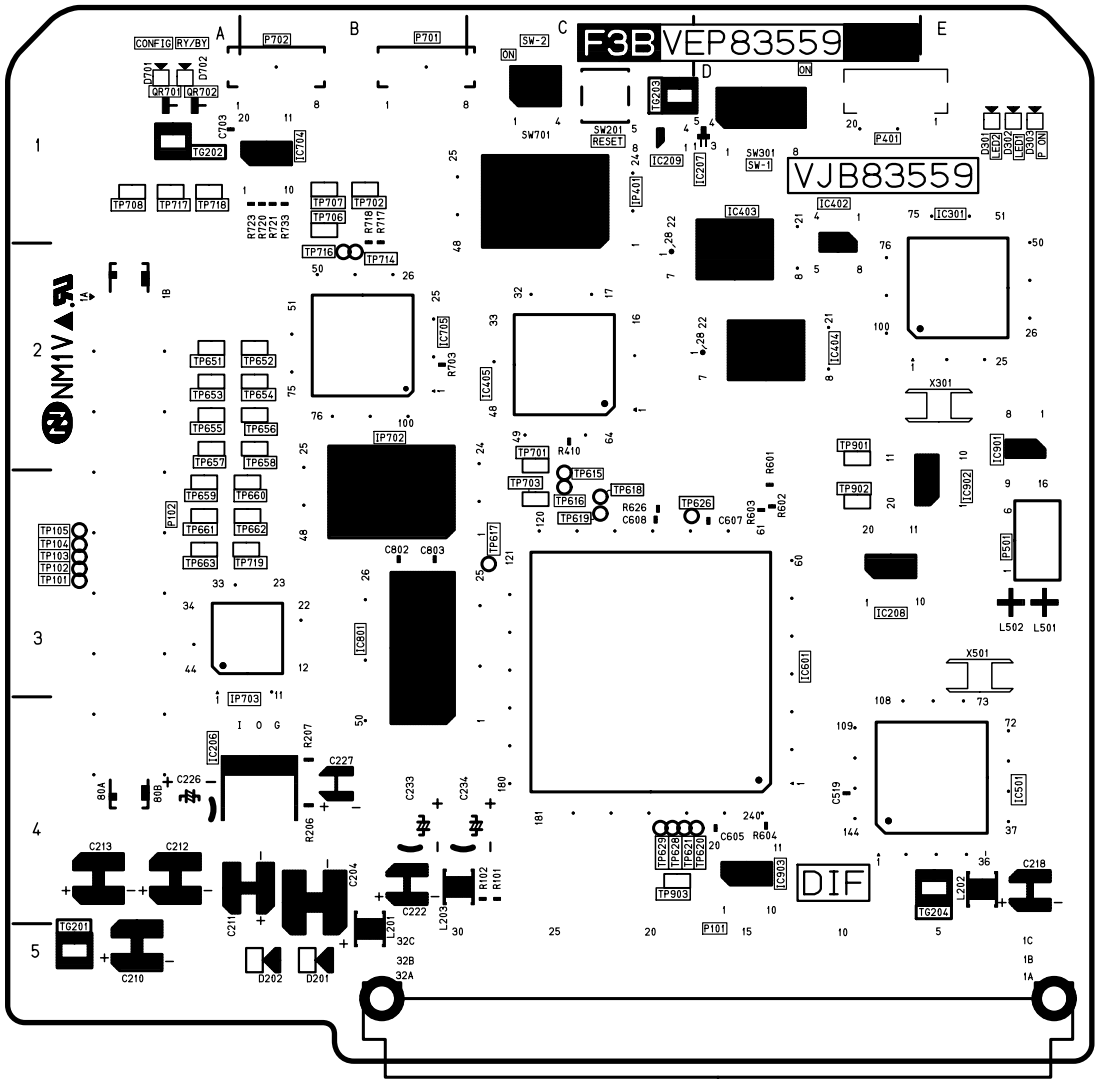
REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC206	A4	IC902	E3	SW301	D1	TP619	C3	TP660	B3	TP901	D2
IC207	D1	IC903	D4	SW701	C1	TP620	D4	TP661	A3	TP902	D3
IC208	D3	IP401	C1	TG201	A5	TP621	C4	TP662	B3	TP903	C4
IC209	C1	IP702	B2	TG202	A1	TP626	C3	TP663	A3		
IC301	E1	IP703	B3	TG203	C1	TP628	C4	TP701	C2		
IC402	D1	P101	D5	TG204	E4	TP629	C4	TP702	B1		
IC403	D1	P102	A3	TP101	A3	TP651	A2	TP703	C3		
IC404	D2	P401	D1	TP102	A3	TP652	B2	TP706	B1		
IC405	C2	P501	E3	TP103	A3	TP653	A2	TP707	B1		
IC501	E4	P701	B1	TP104	A3	TP654	B2	TP708	A1		
IC601	C3	P702	B1	TP105	A3	TP655	A2	TP714	B2		
IC704	B1	QR701	A1	TP615	C3	TP656	B2	TP716	B2		
IC705	B2	QR702	A1	TP616	C3	TP657	A2	TP717	A1		
IC801	B3	SW-2	C1	TP617	C3	TP658	B2	TP718	A1		
IC901	E2	SW201	C1	TP618	C3	TP659	A3	TP719	B3		

DIF JACK



(COMPONENT SIDE)

F3B DIF



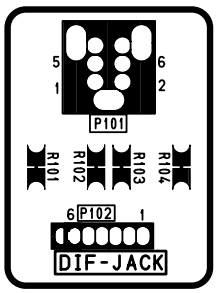
(COMPONENT SIDE)

F3B DIF / DIF JACK P.C.BOARD (VEP83559A / VEP80C21A) (AJ-YAD455P)

FOIL SIDE

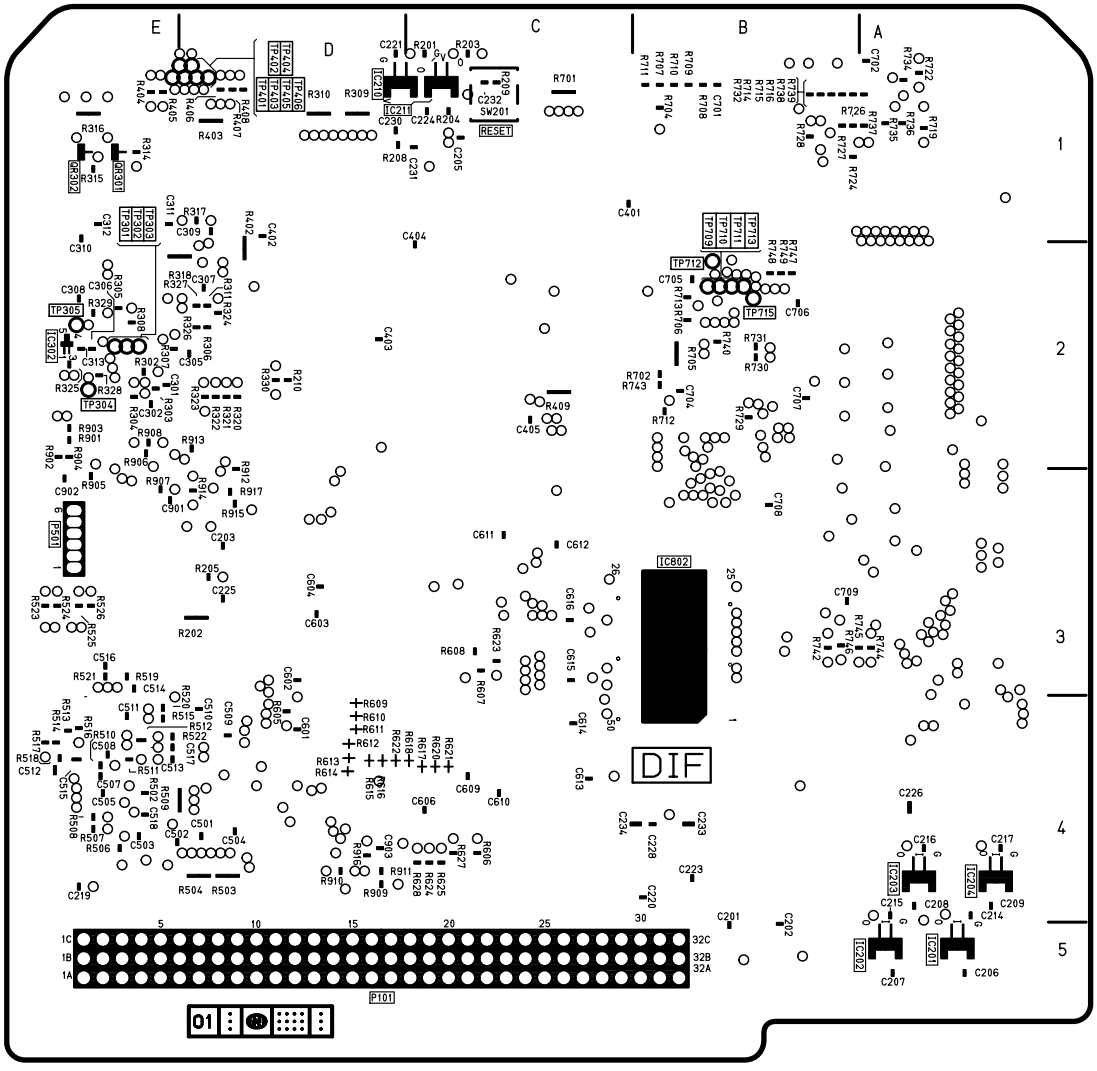
REF	LOC	REF	LOC
IC201	A5	TP303	E1
IC202	A5	TP304	E2
IC203	A4	TP305	E2
IC204	A4	TP401	D1
IC210	D1	TP402	D1
IC211	D1	TP403	D1
IC302	E2	TP404	D1
IC802	B3	TP405	D1
P101	D5	TP406	D1
P501	E3	TP709	B2
QR301	E1	TP710	B2
QR302	E1	TP711	B2
SW201	C1	TP712	B2
TP301	E1	TP713	B2
TP302	E1	TP715	B2

DIF JACK



(FOIL SIDE)

F3B DIF



(FOIL SIDE)

SECTION 7

EXPLODED VIEWS
&
REPLACEMENT PARTS LIST

Note:

1. *Be sure to make your orders of replacement parts according to this list.
2. Unless otherwise specified, all resistors are in OHMS, K=1,000 OHMS, all capacitors are in MICROFARADS (μF), P=μμF.
3. The P.C. Board untils marked with "■" shown below the main assembled parts.
4. The parts marked with Ⓔ on the exploded view show the electric parts.
5. IMPORTANT SAFETY NOTICE
   Components identified with the mark ⚠ have the special characteristics for safety. When replacing any of these components, use only the same type.
6. The marking (RTL) indicates the retention time is limited for this item.
   After the diacontinuation of this assembly in production, it will no longer be available.

CONTENTS

SERVICING FIXTURES & TOOLS PRT-1
MECHANICAL CHASSIS ASSEMBLY (1) PRT-2
MECHANICAL CHASSIS ASSEMBLY (2) PRT-4
SUB CHASSIS ASSEMBLY PRT-6
CASSETTE COMPARTMENT ASSEMBLY PRT-8
CASING PARTS ASSEMBLY PRT-10
FRONT PANEL ASSEMBLY PRT-12
CHASSIS FRAME ASSEMBLY PRT-14
REAR PANEL ASSEMBLY PRT-16
PACKING PARTS ASSEMBLY PRT-18
PACKING PARTS ASSEMBLY (AJ-YA455P) PRT-20
PACKING PARTS ASSEMBLY (AJ-YAD455P) PRT-22
PACKING PARTS ASSEMBLY (AJ-CS455P) PRT-24
ELECTRICAL REPLACEMNT PARTS LIST (AJ-D455E/MC) PRT-26
ELECTRICAL REPLACEMNT PARTS LIST (AJ-YA455P) PRT-58
ELECTRICAL REPLACEMNT PARTS LIST (AJ-YAD455P) PRT-60

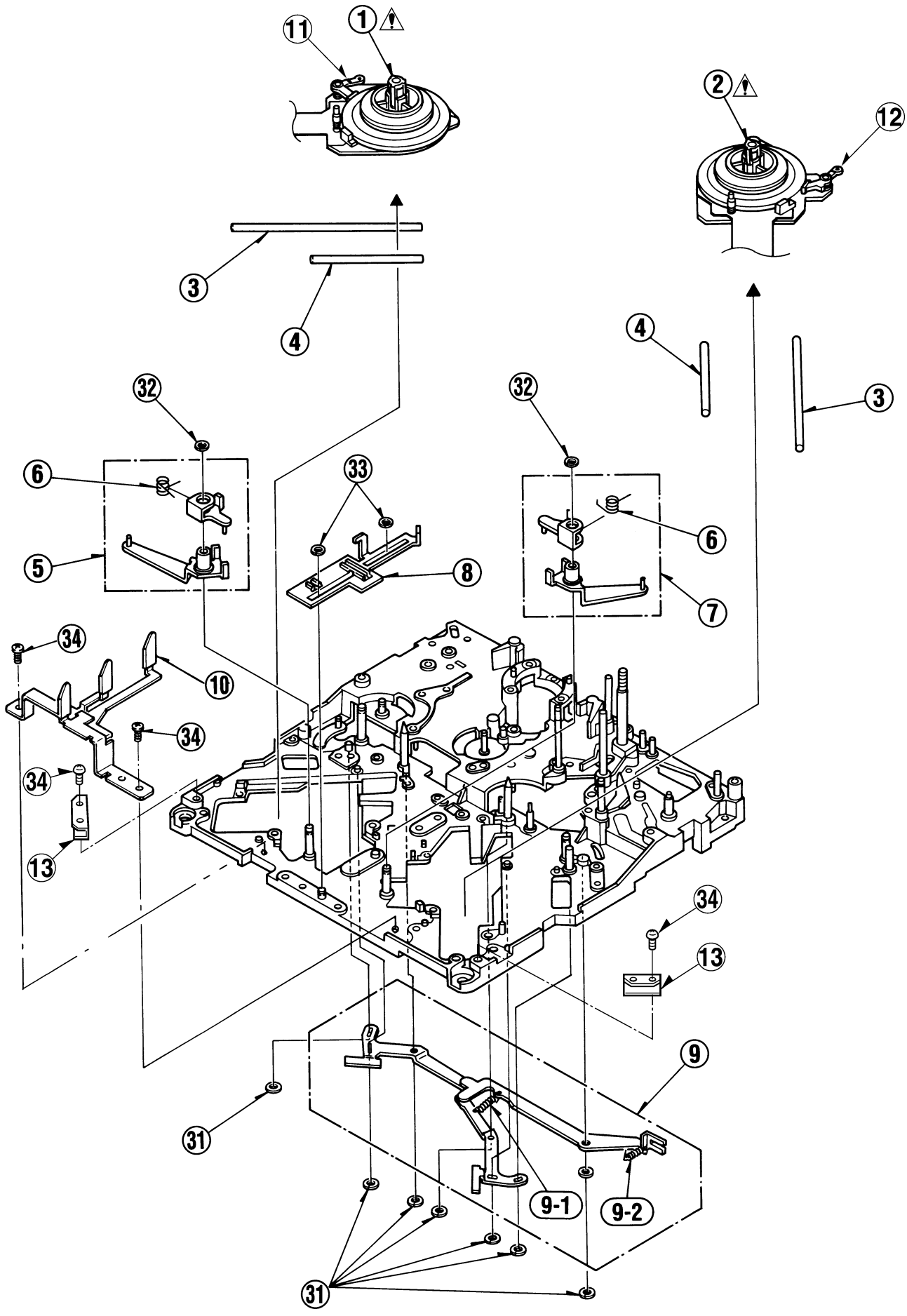
SERVICING FIXTURES & TOOLS

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VFK1145A	BACK TENSION METER	1	
2	VFK1149A	POST DRIVER	1	
3	VFK71A	DIAL TORQUE GAUGE	1	
4	VFK1191A	DIAL TORQUE GAUGE	1	
5	VFK1152	GORQUE GAUGE ADAPTOR	1	
6	VFK0357	ECCENTRIC SCREWDRIVER	1	(1.5MM)
7	VFK1154	POST HIGHT TOOL	1	
8	VFK1153	MECH NEWTRAL PLATE	1	
9	VFK1155	NEWTRAL POSITION TOOL	1	(SILVER)
10	VFK1156	NEWTRAL POSITION TOOL	1	(BLACK)
11	VFK1208	NEWTRAL POSITION TOOL	1	(BLACK WITH HOLE)
12	VFK1150	NUT DRIVER (5.2MM)	1	
13	VFK1151	NUT DRIVER (2.5MM)	1	
14	VFK1188A	DIAL TENSION GAUGE	1	
15	VFK0948A	CHECK LIGHT	1	
16	VFK0749	FROIRAL GREASE	1	(FOR PLASTIC PART)
17	M0R265	MORLYTONE GREASE	1	(FOR METAL PART)
18	VFK1146	PHILIPS DRIVER	1	
19	VFK1147	SCREW DRIVER	1	
20	VFK1148	HEX DRIVER (1.5MM)	1	
21	VFK1178	HEX DRIVER (0.89MM)	1	
22	VFK1179	HEX DRIVER (0.71MM)	1	
23	VFK1190	HEX WRENCH (1.5MM)	1	
24	VFK1209A	TORQUE DRIVER	1	
25	VFK1375	POST AXIS DRIVER	1	
26	VFK1300	A/D BOARD (DAQ-12,QUATECH)	1	
27	VFM3680KM	ALIGNMENT TAPE (NO.1)	1	FOR NTSC (NO.1)
27	VFM3680KL	DVCPRO ALIGNMENT TAPE	1	FOR NTSC (NO.1)
28	VFM3681KM	ALIGNMENT TAPE (NO.2)	1	FOR NTSC (NO.2)
28	VFM3681KL	DVCPRO ALIGNMENT TAPE	1	FOR NTSC (NO.2)
29	VFM3682KM	ALIGNMENT TAPE (NO.3)	1	FOR NTSC (NO.3)
29	VFM3682KL	DVCPRO ALIGNMENT TAPE	1	FOR NTSC (NO.3)
30	VFM3110EDS	DV ALIGNMENT TAPE (COLOR BAR)	1	FOR NTSC (COLOR BAR)
31	VFM3100EDS	DV ALIGNMENT TAPE (LISTA)	1	(LISTA)
32	AJ-CL12MP	CLIEANING TAPE	1	
33	VFK1423	TAPE BEG/END DET CASSETTE	1	(M)
34	VFK1192	F EXTENSION BOARD	1	
35	VFK1496	EXTENDER BOARD	1	
36	VFK1481C	LISTA SOFTWARE	1	
37	VFK1186	LISTA CABLE	1	
38	VFK1503	SERVO VERSION UP SOFTWARE	1	
39	VFK1590	C PLD WRITER	1	
40	VFK1304A	FLASH ROM VERSION UP TOOL	1	
41	VFK0906	OIL	1	
42	VZZ0095	CLEANING CLOTH	1	
43	-----	EE CLEANER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

MECHANICAL CHASSIS ASSEMBLY (1)

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.



MECHANICAL CHASSIS ASSEMBLY (1)

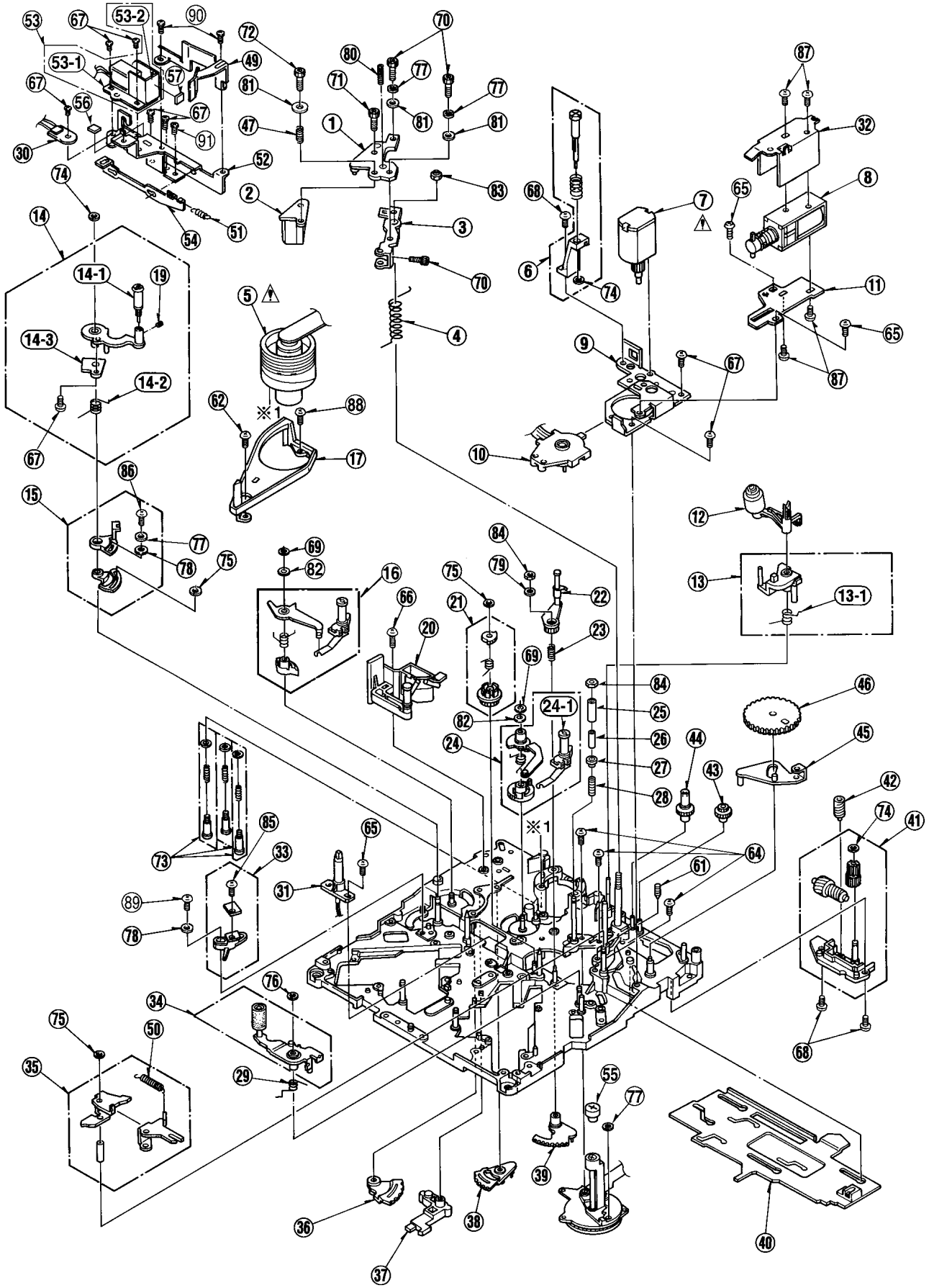
Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
⚠ 1	VEM0686	S REEL MOTOR A ASS'Y	1	(M)
⚠ 2	VEM0687	T REEL MOTOR A ASS'Y	1	(M)
3	VMS5923	REEL OUTER RAIL	2	
4	VMS5924	REEL INNER RAIL	2	
5	VXL2589	S BASE DRIVE ARM ASS'Y	1	
6	VMB2944	CHARGE SPRING	2	
7	VXL2590	T BASE DRIVE ARM ASS'Y	1	
8	VXA5625	SLIDE ROD ASS'Y	1	
9	VXL2597	M STOPPER DRIVE ARM ASS'Y	1	
9-1	VMB2955	M STOPPER SPRING (1)	1	
9-2	VMB3017	M STOPPER SPRING (2)	1	
10	VXA6174	L-M BRAKE RELEASE ASS'Y	1	
11	VXZ0439	S BRAKE ARM ASS'Y	1	
12	VXZ0440	T BRAKE ARM ASS'Y	1	
13	VMZ2603	REEL FLEX COVER	2	
31	VMX1061	WASHER	7	
32	VMX1079	CUT WASHER	2	
33	VMX0967	CUT WASHER	2	
34	XQN2+CF3	SCREW	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

MECHANICAL CHASSIS ASSEMBLY (2)

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.



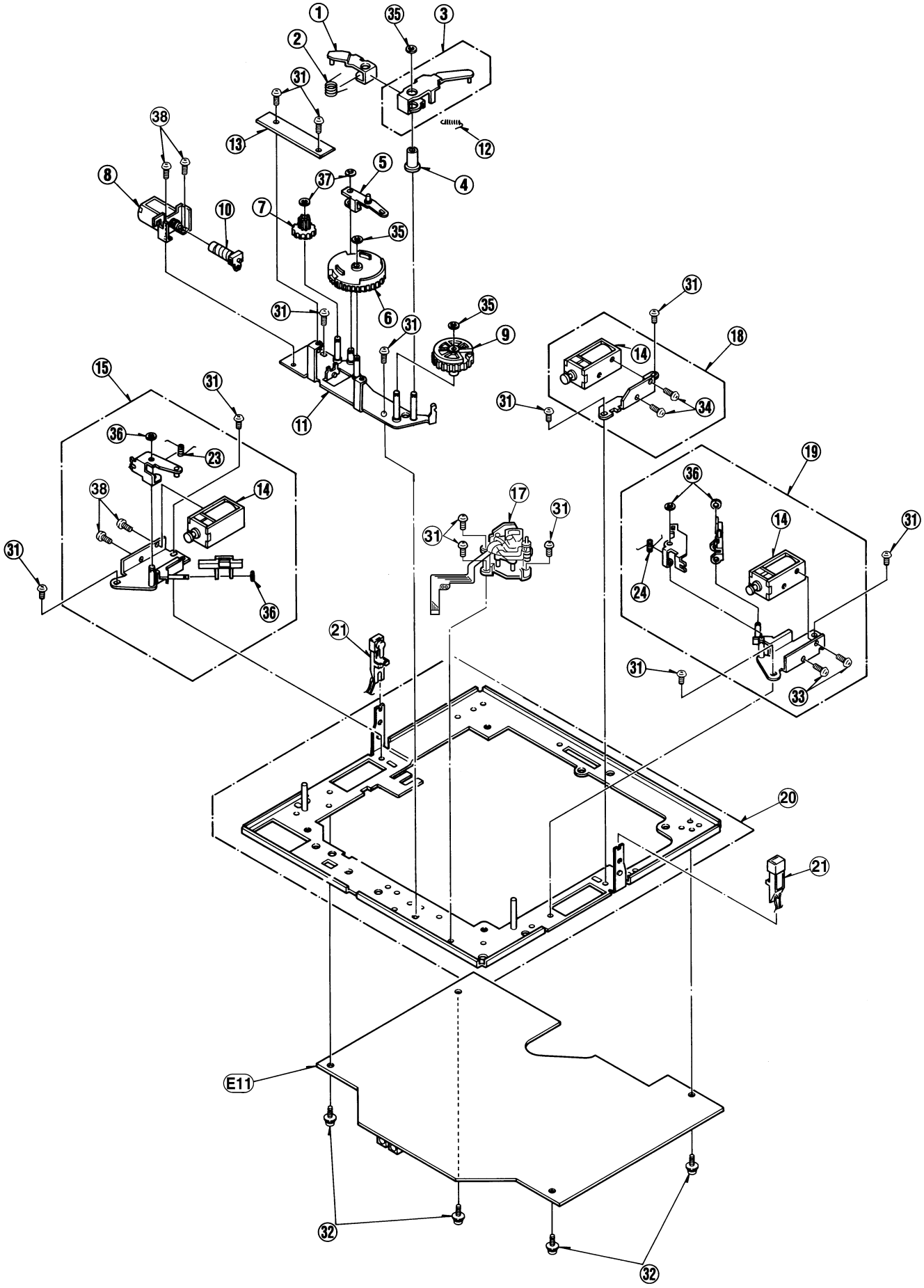
MECHANICAL CHASSIS ASSEMBLY (2)

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXA5554	A/C HEAD BASE (1) ASS'Y	1	
2	VED0419	A/C HEAD	1	(M)
3	VXA6067	A/C HEAD BASE (2) ASS'Y	1	
4	VMB2935	A/C HEAD HIGHT SPRING	1	
⚠ 5	VEG1498	CYLINDER UNIT	1	
6	VXA5715C	SHAFT HOLDER ASS'	1	OR VXA5715
⚠ 7	VEM0645C	LOADING MOTOR (1) ASS'Y	1	(M)OR VEM0645
8	VSJ0227	PINCH SOLENOID	1	(M)
9	VXA5584C	MOTOR ANGLE ASS'Y	1	OR VXA5584
10	VES0937	MODE SW ASS'Y	1	
11	VMA0A35	PINCH SOLENOID BASE	1	
12	VXL3027C	CLEANING ARM ASS'Y	1	OR VXL3027
13	VXL2870C	T2 ARM ASS'Y	1	OR VXL2870
13-1	VMB3304	T2 ARM SPRING	1	
14	VXL2831	TENSION ARM A ASS'Y	1	(M)
14-1	VXP1761	TENSION ROLLER	1	
14-2	VMB3220	TENSION LEG SPRING	1	
14-3	VXA6173	MAGNET HOLDER ASS'Y	1	
15	VXA5791C	TENSION REG. SPRING HOOK	1	OR VXA5791
16	VXL2709	S1 LOADING ARM ASS'Y	1	(M)
17	VMD3731	LOADING RAIL	1	
19	VHD0561	HEX SCREW	1	
20	VXA6052	S POST BASE A ASS'Y	1	(M)
21	VXP1683C	T4 CONNECTION GEAR ASS'Y	1	OR VXP1683
22	VXL2772	T4 ARM ASS'Y	1	
23	VMB2950	T4 THRUST SPRING	1	
24	VXL2952	T LOADING ARM ASS'Y	1	
24-1	VXA6378	T1 BOAT ASS'Y	1	(M)
25	VMS5906	T3 UPPER FRANGE	1	
26	VMS5905	T3 SLEEVE	1	
27	VMS5904	T3 LOWER FRANGE	1	
28	VMB2929	T3 SPRING	1	
29	VMB2933	PINCH RELEASE SPRING	1	
30	VEK7927	INSULLATION SENSOR	1	EYHS77Y7
31	VEK8970	LED HOLDER P.C.BOARD	1	
32	VMA9411	PINCH SOLENOID ANGLE	1	
33	VXA5820C	TENSION SENSOR AS'Y	1	OR VXA5820
34	VXL2835C	PINCH ARM ASS'Y	1	(M)OR VXL2835
35	VXL2588C	PINCH GUIDE ARM ASS'Y	1	OR VXL2588
36	VXA5570C	T SECTOR GEAR ASS'Y	1	OR VXA5570
37	VXL2838C	TENSION REG. GUIDE ARM	1	OR VXL2838
38	VXA5567C	S SECTOR GEAR ASS'Y	1	OR VXL5567
39	VXA5564C	T4 SECTOR GEAR ASS'Y	1	OR VXA5564
40	VXA6348	MAIN ROD ASS'Y	1	
41	VXA5627C	THRUST SHAFT HOLDER ASS'Y	1	OR VXA5627
42	VDG1166	MOTOR WARM GEAR	1	
43	VDG1443	EMARGENCY GEAR A	1	
44	VDG1444	MOTOR EMARGENCY GEAR B	1	
45	VXL2889C	MAIN CAM ARM ASS'Y	1	OR VXL2889
46	VDG1168	MAIN CAM GEAR	1	(M)
47	VMB2937	A/C HEAD ADJUST SPRING	1	
49	VMD3475	T1 GUIDE ASS'Y	1	
50	VMB2934	SPRING	1	
51	VMB3051	CLEANER RETURN SPRING	1	
52	VXA6077	CLEANER BASE 1 ASS'Y	1	
53	VXA6078	CLEANER SOLENOID ASS'Y	1	
53-1	VSJ0226	CLEANER SOLENOID	1	(M)
53-2	VMA9877	CLEANER SOLENOID BASE	1	
54	VMM0429	CLEANER INTERLOCK	1	
55	VXQ0556	THRUST SCREW ASS'Y	1	(M)
56	VMT0871	SILENCER A	1	
57	VMT0872	SILENCER B	1	
61	VHD0356	SCREW	1	
62	XQN2+A3	SCREW	1	
64	XQN2+A35FZ	SCREW	3	
65	XQN2+AM2	SCREW	3	
66	XQN2+AM4	SCREW	1	
67	XQN2+CF3	SCREW	8	
68	XQN2+CF4	SCREW	3	
69	XUC12FP	E-RING	2	
70	XVE2B4FZ	HEX SCREW	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
71	XVE2B6FP	HEX SCREW	1	
72	XVE2B12FP	HEX SCREW	1	
73	VXQ0439	SCREW	3	
74	VMX0967	CUT WASHER	3	
75	VMX1061	WASHER	3	
76	VMX1079	CUT WASHER	1	
77	XWA2B	WASHER	4	
78	XWE2	WASHER	2	
79	XWE16VW	WASHER	1	
80	XXE2A6FP	HEX SCREW	1	
81	XWG2	WASHER	3	
82	XWGV15Z32G	WASHER	2	
83	VHD0045	NYLON NUT	1	
84	VHN0312	NUT	2	
85	XQN2+AQ3.5FZ	SCREW	1	
86	XQN2+AJ5	SCREW	1	
87	XQN2+A1.5	SCREW	4	
88	XQN2+A4	SCREW	1	
89	XQN2+C4	SCREW	1	
90	XYN2+J5	SCREW	2	
91	XYN2+K4	SCREW	1	
*	VXY1631Z1	MECHA CHASSIS ASS'Y	1	

SUB CHASSIS ASSEMBLY

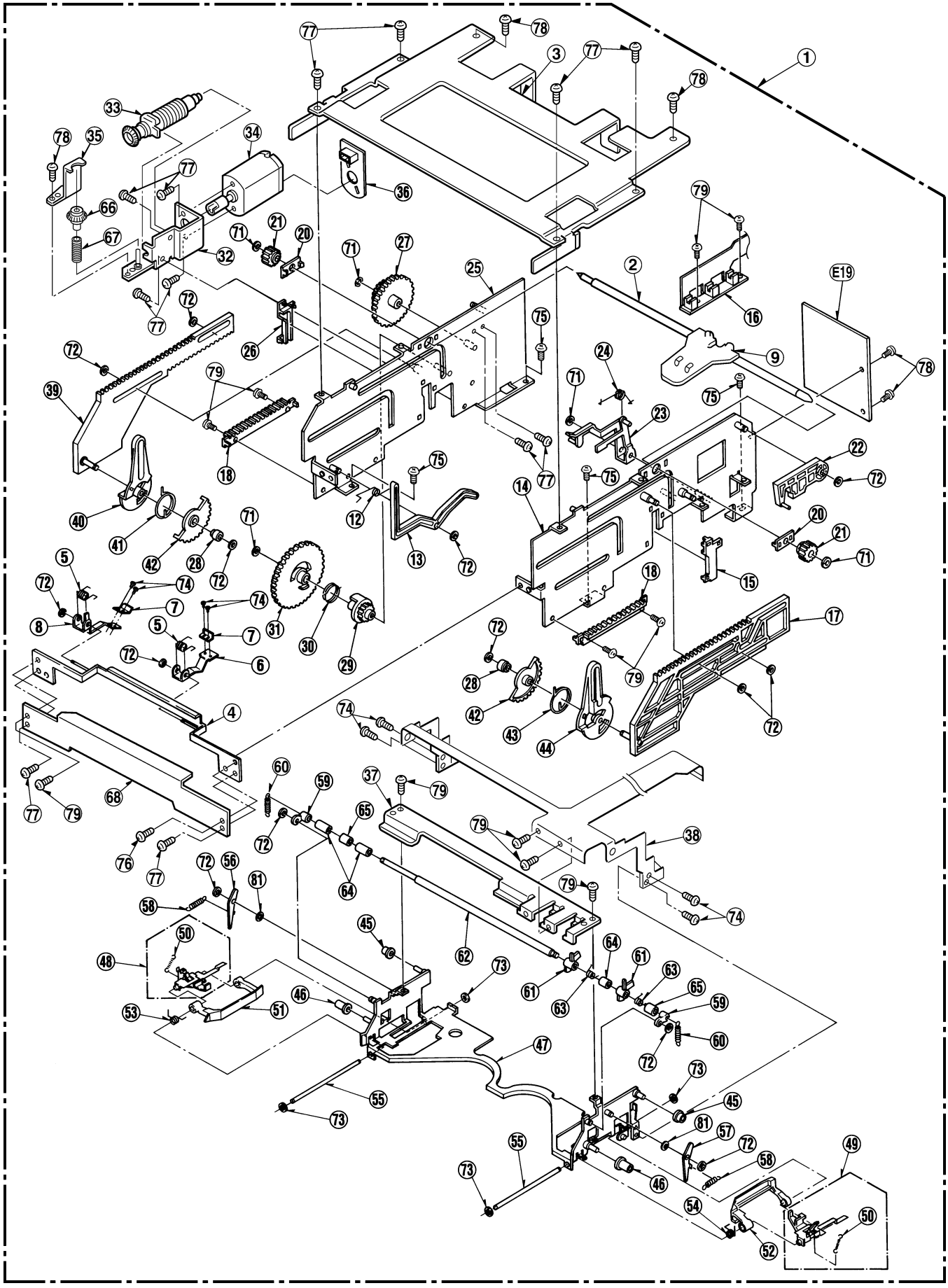


SUB CHASSIS ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXL2656	MIC DRIVE ARM (A) ASS'Y	1	
2	VMB3018	MIC DRIVE SPRING	1	
3	VXL2657	MIC DRIVE ARM (B) ASS'Y	1	
4	VDB1429	MIC DRIVE ARM BOSS	1	
5	VXL2613	REEL DRIVE ARM ASS'Y	1	
6	VDG1192	REEL DRIVE CAM GEAR	1	
7	VDG1193	REEL DRIVE WORM WHEEL	1	
8	VEM0585	REEL DRIVE MOTOR ASS'Y	1	(M)
9	VDG1211	MIC GENEVA GEAR	1	
10	VXP1698	REEL DRIVE WORM ASS'Y	1	
11	VXA5628	MOTOR BASE ASS'Y	1	
12	VMB3019	MIC DRIVE RETURN SPRING	1	
13	VEK7726	REEL SENSOR P.C.BOARD	1	
14	VSJ0216	SOLENOID	3	(M)
15	VXA5575	S-BRAKE SOLENOID BASE ASS'Y	1	
17	VXA7014	DISTINCTION SW ASS'Y	1	(M)
18	VXA5579C	M STOPPER SOLENOID ASS'Y	1	OR VXA5579
19	VXA5887	T-BRAKE SOLENOID BASE ASS'Y	1	
20	VXK1336	SUB CHASSIS	1	
21	VEK7692	SENSOR HOLDER ASS'Y	2	
22	VMS6193	T BRAKE RELEASE ARM SHAFT	1	
23	VMB2957	S BRAKE SPRING	1	
24	VMB2987	T BRAKE SPRING	1	
31	XQN2+CF3	SCREW	13	
32	XYN26+K6	SCREW	4	
33	XQN2+A1.5	SCREW	2	
34	XQN2+A2	SCREW	2	
35	VMX1079	CUT WASHER	3	
36	VMX0967	CUT WASHER	4	
37	VMX1548	CUT WASHER	2	
38	XQN2+A1.5	SCREW	4	
E11	VEP82239A	MECHA I/F P.C.BOARD	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

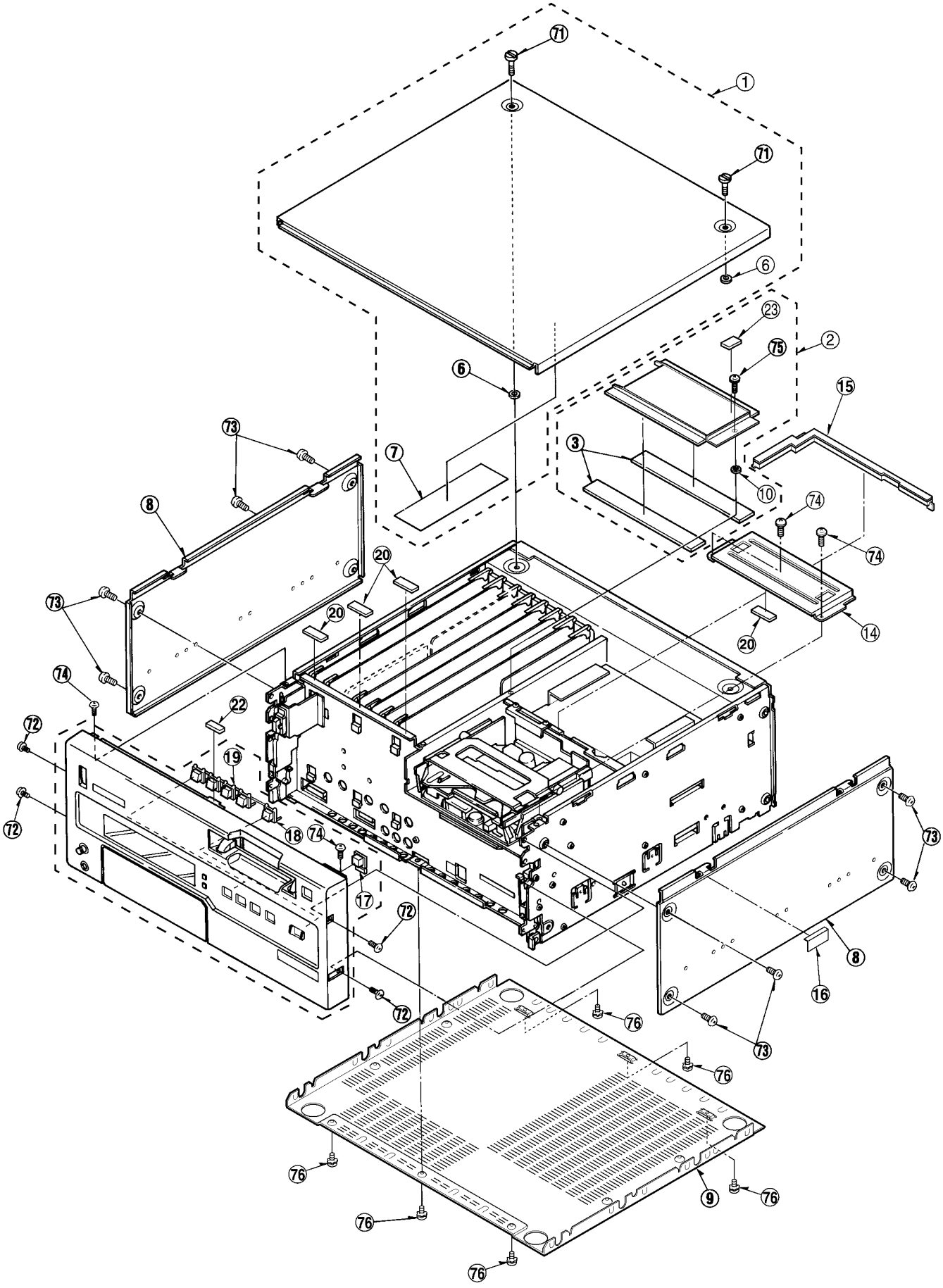
CASSETTE COMPARTMENT ASSEMBLY



CASSETTE COMPARTMENT ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VXA6593	CASSETTE COMPARTMENT	1	(M)
2	VMS5865	MAIN SHAFT	1	
3	VMA9849	TOP PLATE	1	
4	VXA6572	FRONT GUIDE 1 ASS'Y	1	
5	VMB3075	M GUIDE SPRING	2	
6	VML3191	M GUIDE RIGHT LEVER	1	
7	VML3192	M FRONT GUIDE	2	
8	VML3190	M GUIDE LEFT LEVER	1	
9	VML3397	CASSETTE PROTECT PLATE	1	
12	VMB2926	SPRING	1	
13	VML2A50	BLINDER PANEL OPENER	1	
14	VXA6074	R SIDE PLATE 1 ASS'Y	1	
15	VML3282	SUB RAIL (R)	1	
16	VEK7695	SIDE FLEXIBLE	1	
17	VXA5766	MAIN RACK R ASS'Y	1	
18	VDG1156	WIPER RACK	2	
20	VDB1395	MAIN SHAFT ANGLE	2	
21	VDG1412	INTERLOCK GEAR	2	
22	VML3193	OPENER DRIVE ARM	1	
23	VXL2692	OPENER ANGLE ASS'Y	1	
24	VMB2979	SPRING	1	
25	VXA6072	SIDE PLATE L 1 ASS'Y	1	
26	VML3281	SUB RAIL (L)	1	
27	VDG1413	INTERAMEDIATE GEAR	1	
28	VDP1643	WIPER ROLLER	2	
29	VDG1414	CLUTCH GEAR	1	
30	VMB2980	CLUTCH SPRING	1	
31	VDG1236	WORM WHEEL	1	
32	VXA5848	MOTOR ANGLE (A) ASS'Y	1	
33	VXP1797	E.E SLOT IN WORM ASS'Y	1	
34	VXA5597	MOTOR ASS'Y	1	(M)
35	VMA9673	EMARGENCY ANGLE	1	
36	VEK7793	MOTOR P.C.BOARD	1	
37	VMA9668	HOLDER PLATE	1	
38	VEK7715	HOLDER FLEXIBLE ASS'Y	1	
39	VXA6075	MAIN RACK (L) ASS'Y	1	
40	VML3485	WIPER ARM (R)	1	
41	VMB3391	WIPER ARM (L)	1	
42	VDG1163	WIPER GEAR	2	
43	VMB3390	WIPER SPRING (L)	1	
44	VML3484	WIPER SPRING (R)	1	
45	VDP1642	CASSETTE GUIDE ROLLER (2)	2	
46	VDP1641	CASSETTE GUIDE ROLLER (1)	2	
47	VXA5757	CASSETTE HOLDER 1 ASS'Y	1	
48	VXA5758	ROD L	1	
49	VXA5759	ROD R	1	
50	VMB3064	SLIDE SPRING	2	
51	VML3249	SIDE GUIDE L	1	
52	VML3250	SIDE GUIDE R	1	
53	VMB3061	SLIDE GUIDE SPRING L	1	
54	VMB3062	SLIDE GUIDE SPRING R	1	
55	VMS6108	KICK OFF ROD SHAFT	2	
56	VML2A54	KICK OFF ARM L	1	
57	VML2A55	KICK OFF ARM R	1	
58	VMB2928	KICK OFF SPRING	2	
59	VML2A53	CASSETTE HOLDER ARM	2	
60	VMB2927	CASSETTE HOLDER SPRING	2	
61	VMX2833	M-L DETECT ROLLER	2	
62	VMS5882	CASSETTE HOLDER SHAFT	1	
63	VMB3253	M-L DETECT SPRING	2	
64	VMX2559	CASSETTE PRESSURE ROLLER(2)	3	
65	VMX2524	CASSETTE PRESSURE ROLLER(1)	2	
66	VDG1246	EMARGENCY GEAR	1	
67	VMB3109	EMARGENCY SPRING	1	
68	VMZ2661	FRONT GUIDE COVER	1	
71	VMX0653	CUT WASHER	5	
72	VMX0967	CUT WASHER	14	
73	VMX1061	WASHER	4	
74	XQN16+A2	SCREW	8	
75	XQN2+CF3	SCREW	4	
76	XQN2+A2	SCREW	1	
77	XYN2+C4	SCREW	12	
78	XQN2+A3	SCREW	5	
79	LMHD16064	SCREW	11	
81	XWGV2Z5G	WASHER	2	
E19	VEP80856A	CARRIGE P.C.BOARD	1	

CASING PARTS ASSEMBLY

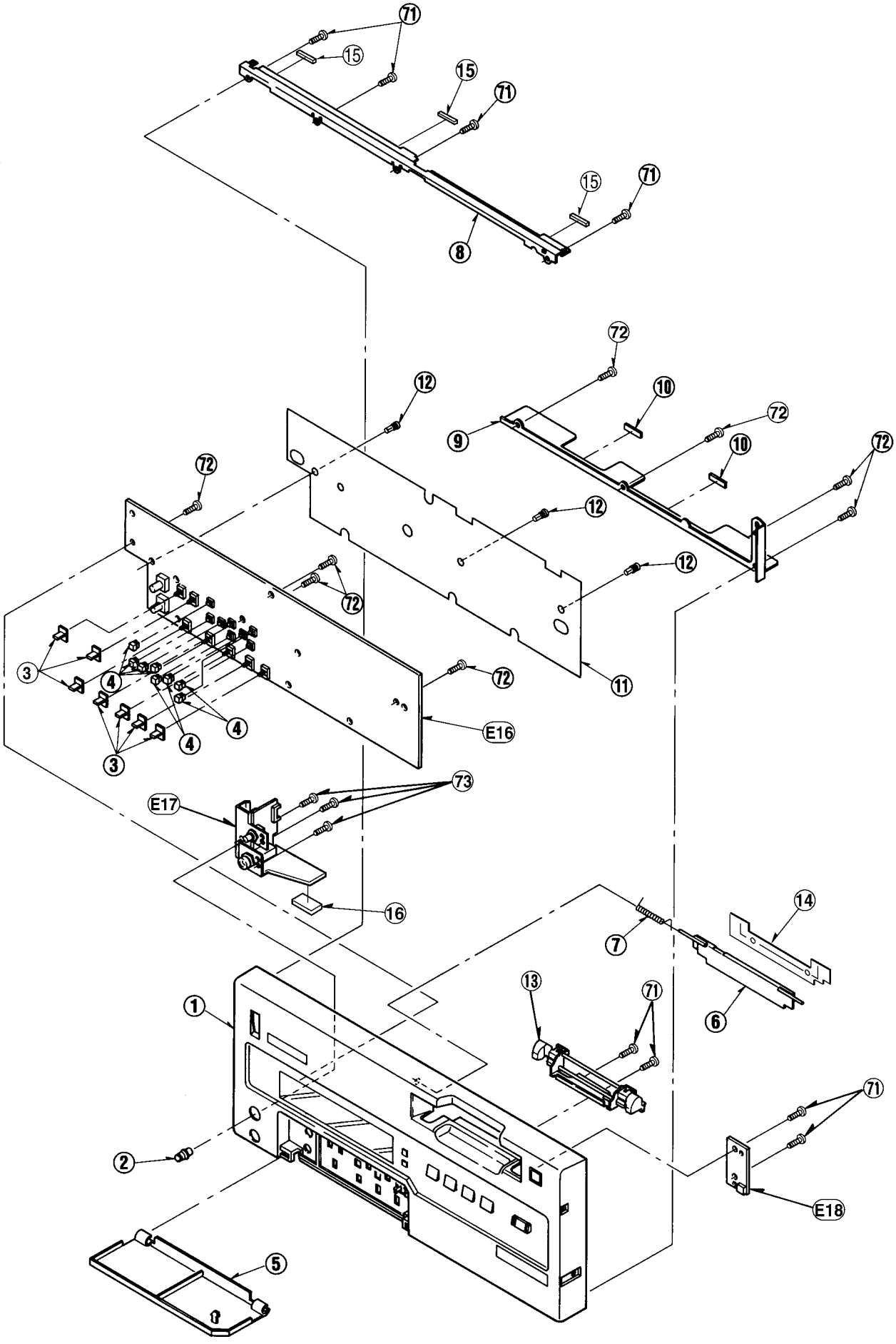


CASING PARTS ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VYP7626	TOP PANEL ASS'Y	1	
2	VXA7031	P.C.B. PLATE L ASS'Y	1	
3	VMT1222	P.C.B. RUBBER CUSHION L	2	
6	VMX2510	SPACER	2	
7	VMZ2325	TOP PANEL BARRIER	1	
8	VGM1699	SIDE PANEL	2	
9	VKU0546	BOTTOM PLATE	1	
10	VMX1558	NYLON WASHER	1	
14	VMP5265	CARRIAGE SUPPORT METAL	1	
15	VXA6591	MECHA DUST PROOF (U)ASS'Y	1	
16	VGF0816	INSULATION SHEET	1	
17	VGU8108	EJECT BUTTON	1	
18	VGU7423	OPERATION BUTTON B	1	
19	VGU7422	OPERATION BUTTON A	1	
20	VMT0493	CUSHION	4	
22	VMT0847	GASKET	1	
23	VMT0797	GASKET	1	
71	VHD0775	SCREW	2	
72	XSB3+8FZ	SCREW	4	
73	XSB4+8FC	SCREW	8	
74	XTV3+6F	SCREW	4	
75	XYN3+K8	SCREW	1	
76	XYE3+EF6	SCREW	6	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

FRONT PANEL ASSEMBLY



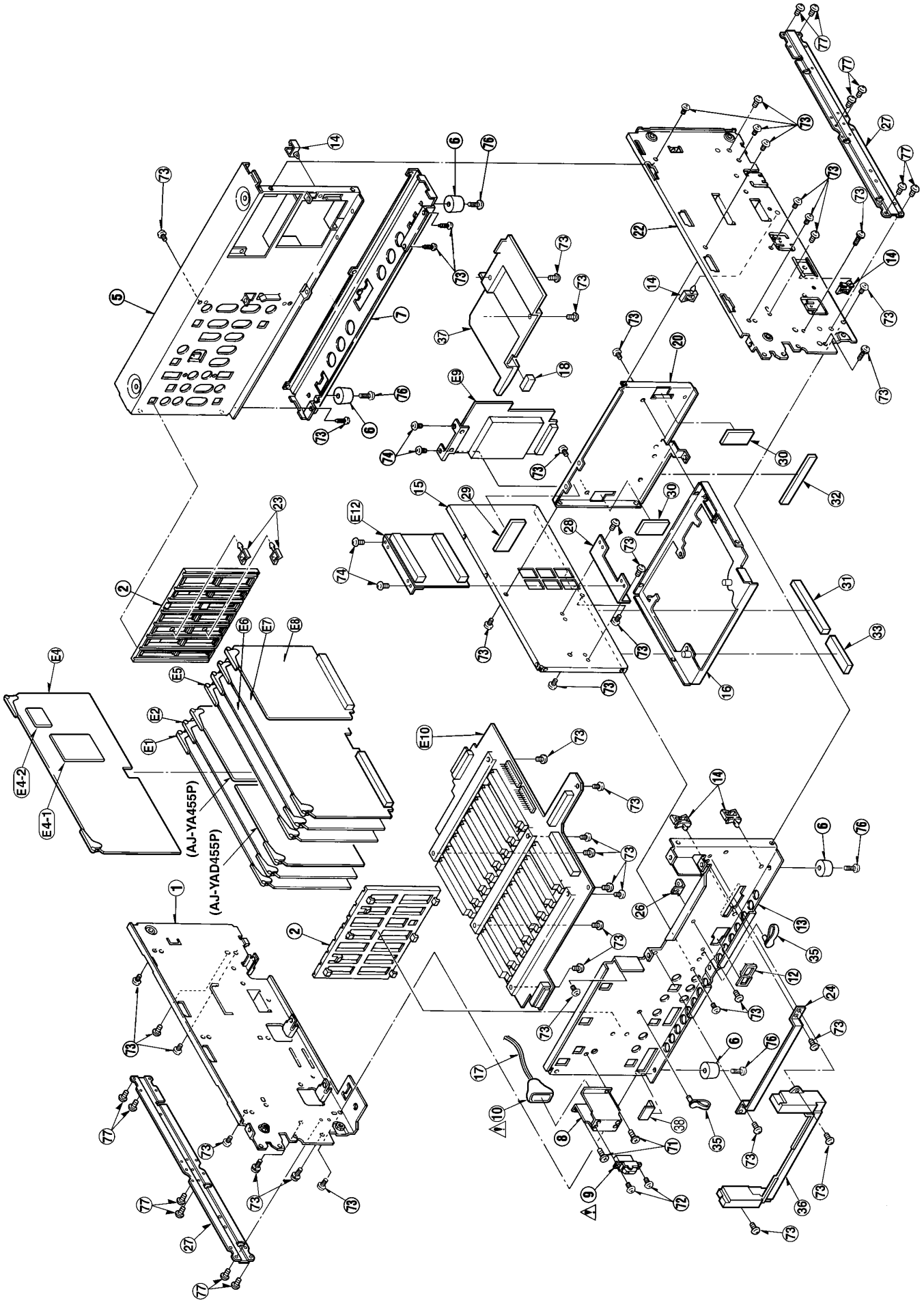
FRONT PANEL ASSEMBLY

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VYP8126	FRONT PANEL (1) ASS'Y	1	
2	VGU5334	LEVER VR KNOB	1	
3	VGU6516	SLIDE SW KNOB (L)	7	
4	VGU7459	TACT SW KNOB	8	
5	VKF3100	FRONT WINDOW	1	
6	VKF2785	BLINDER PANEL	1	
7	VMB2923	BLINDER SPRING	1	
8	VMP4864	UPPER FRONT PANEL ANGLE	1	
9	VMP6810	PANEL SUPPORT ANGLE	1	
10	VMT0800	GASKET	2	
11	VMZ3143	INSULATION SHEET	1	
12	VJF0108	SPACER	3	
13	VYQ2301	CASSETTE GUIDE ASS'Y	1	
14	VGF0836	PANEL SHEET	1	
15	VMT0847	GASKET	3	
16	VMT0493	CUSHION	1	
71	XTV3+8G	SCREW	8	
72	XTN4+10G	SCREW	8	
73	XTV3+6GFZ	SCREW	3	
E16	VEP86315A	FRONT P.C.BOARD	1	
E17	VEP80C15A	HEAD PHONE P.C.BOARD	1	
E18	VEP80C16A	EJECT P.C.BOARD	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

CHASSIS FRAME ASSEMBLY

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.



CHASSIS FRAME ASSEMBLY

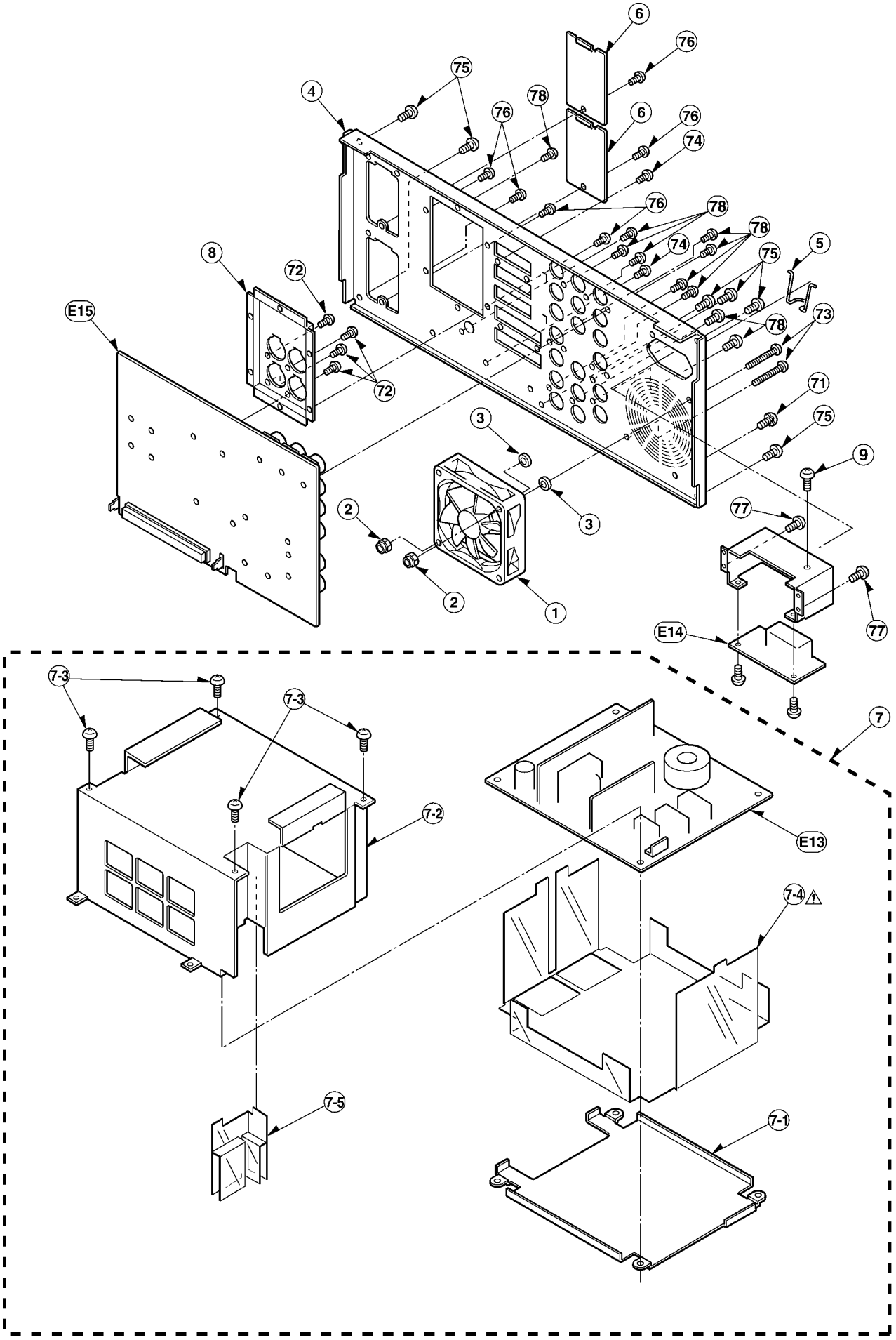
Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VMP6832	SIDE FRAME (L)	1	
2	VGQ4011	P.C.BOARD GUIDE RAIL A	2	
5	VMP6802	REAR FRAME	1	
6	VKA0117	PLASTIC FOOT	4	
7	VMP6020	BOTTOM FRAME	1	
8	VMP4881	SW BRACKET	1	
⚠ 9	EST15367S	POWER SWITCH	1	
⚠ 10	VMZ0580	SW COVER	1	
12	VJF1259	EDGE HOLDER	1	
13	VMP6803	FRONT FRAME	1	
14	VJF0384	CLAMPER	5	
15	VMP6800	CENTER FRAME	1	
16	VXA7029	MECHA FRAME ASS'Y	1	
⚠ 17	VEE0N56	AC CABLE	1	
18	VMT0968	DUST PROOF CUHION (D)	1	
20	VMP6801	MIDDLE FRAME	1	
22	VMP6833	SIDE FRAME (R)	1	
23	VJF0384	CLAMPER	2	
24	VMP6126	MECHA DUST PROOF (F)ASS'Y	1	
26	VMP5298	SAUB P.C.B. HOLDER ANGLE	1	
27	VMP6248	RACK MOUNT	2	
28	VMP6807	MECHA EXT FIX ANGLE	1	
29	VMT1014	DUST PROOF CUSHION (A)	1	
30	VMT1219	DUST PROOF CUSHION (A)	2	
31	VMT1044	DUST PROOF CUSHION (L)	1	
32	VMT1232	DUST PROOF CUSHION (A)	1	
33	VMT1043	CUSHION	1	
35	VJF0469	CLAMPER	2	
36	VXA6625	MECHA DUST PROOF (F)ASS'Y	1	
37	VXA7032	MECHA SHIELD (L) ASS'Y	1	
38	VMT0779	GASKET	1	
71	VHD5013	SCREW	2	
72	XTN3+6F	SCREW	2	
73	XTV3+6F	SCREW	44	
74	XTV3+6FFR	SCREW	4	
76	XYNV3+K12S	SCREW	4	
77	XTV4+6F	SCREW	12	
E1	VEP84374A	F1 AUDIO P.C.BOARD	1	
E2	VEP83557B	V OUT P.C.BOARD0	1	
E4	VEP83554B	D PROC P.C.BOARD0	1	
E4-1	VEP83555A	CSP SUB P.C.BOARD	1	FOR VEP83554B
E4-2	VSI3675B	DV UCOM P.C.BOARD	1	FOR VEP83554B
E5	VEP83553B	V IN P.C.BOARD0	1	
E6	VEP86314B	SYSCON P.C.BOARD0	1	
E7	VEP82238B	SERVO P.C.BOARD0	1	
E8	VEP85196A	F8 RF EQ P.C.BOARD	1	
E9	VEP85197A	RF CUE P.C.BOARD	1	
E10	VEP80C14A	MOTHER P.C.BOARD	1	
E12	VEP82240A	MECHA I/F 2 P.C.BOARD	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

REAR PANEL ASSEMBLY

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.



REAR PANEL ASSEMBLY

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

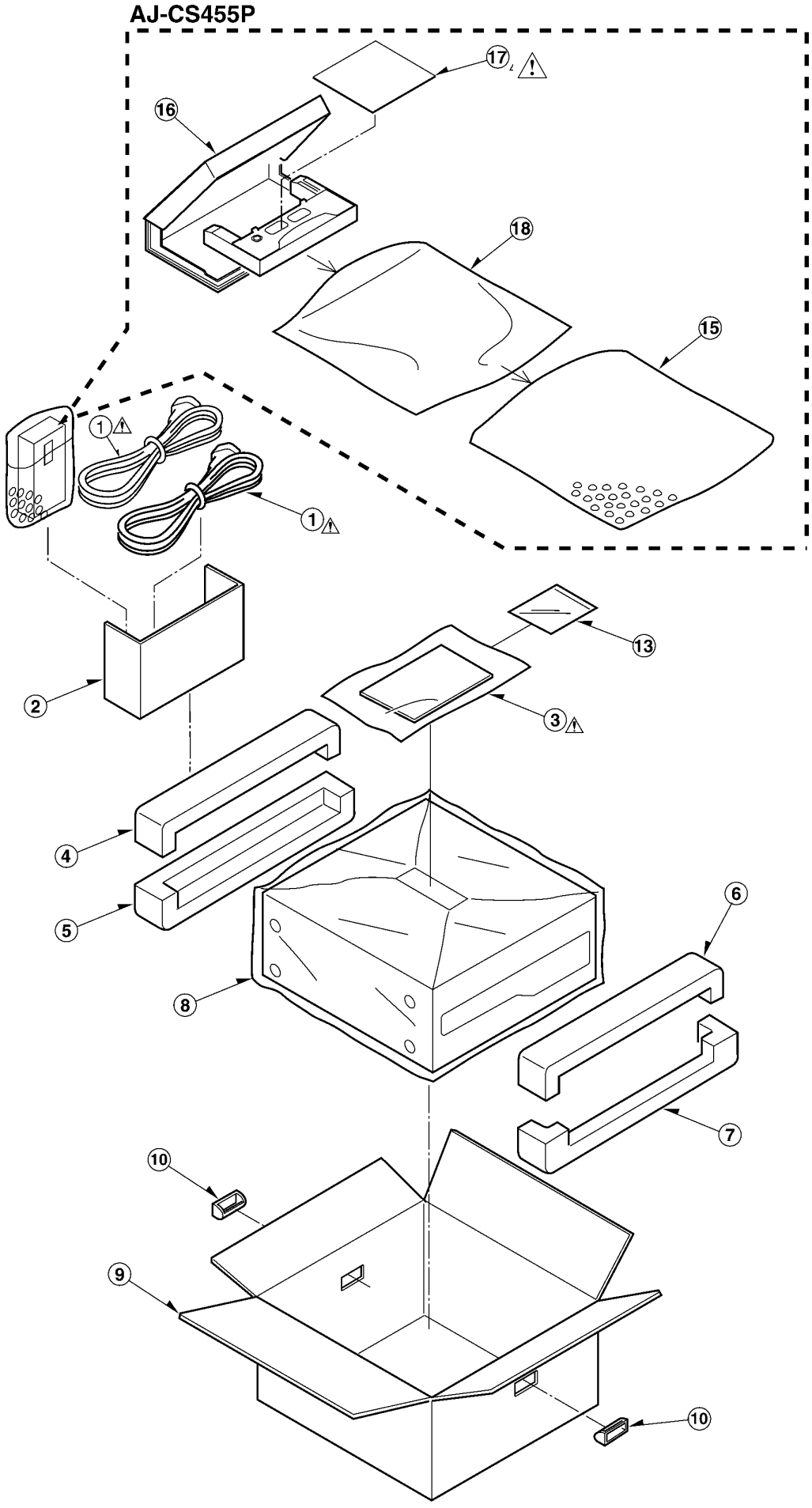
Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VRF0190	FAN MOTOR	1	L6FALEFH0007
2	VHN0063	NYLON NUT	2	
3	VMX0835	SPACER	2	
⚠ 4	VJH1205	JACK PANEL	1	
5	VML2903	AC CORD HOOK	1	
6	VMP5032	OPTION PANEL	2	
7	VEK9369	POWER ASS'Y	1	
7-1	VSC5223	POWER CASE (LOWER)	1	
7-2	VSC5224	POWER CASE (UPPER)	1	
7-3	XYN3+F8	SCREW	4	
⚠ 7-4	VMZ3147	POWER BARRIER	1	
⚠ 7-5	VMZ3148	POWER BARRIER B	1	
8	VMP6811	XLR HOLDER ANGLE	1	
9	XYN4+E6VW	SCREW	1	
71	XYE4+EF8	SCREW	1	
72	XSN26+6FZ	SCREW	4	
73	XSN4+35FC	SCREW	2	
74	XTN26+6FFZ	SCREW	5	
75	XTV3+6F	SCREW	6	
76	XTV3+6FFZ	SCREW	6	
77	XTV3+6FFR	SCREW	6	
78	XTV3+10GFZ	SCREW	10	
E13	VEP81221B	POWER 1 P.C.BOARD0	1	
E14	VEP81222A	POWER 2 P.C.BOARD	1	
E15	VEP80C13A	AV JACK P.C.BOARD	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

PACKING PARTS ASSEMBLY

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

AJ-CS455P



PACKING PARTS ASSEMBLY

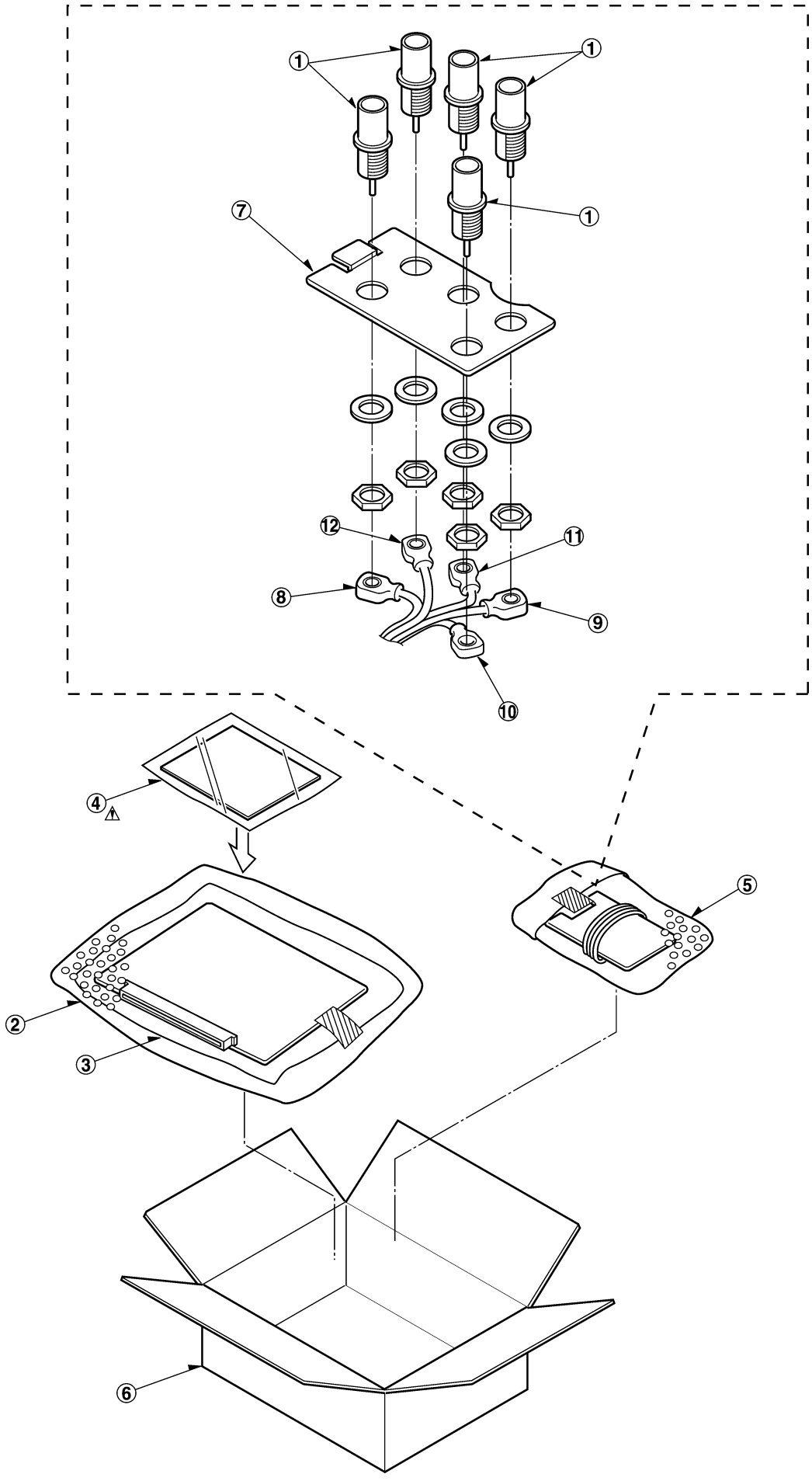
Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
⚠ 1	VJA0774	POWER CORD (B)	1	FOR AJ-D455E
⚠ 1	VJA0775	POWER CORD (E)	1	FOR AJ-D455E
⚠ 1	VJA1147	POWER CORD	1	FOR AJ-D455MC
2	VPN4305	ACCESSORY PAD	1	
⚠ 3	VQT9349	OPERATING INSTRUCTIONS	1	FOR AJ-D455E
⚠ 3	VQT9350	OPERATING INSTRUCTIONS	1	FOR AJ-D455MC
4	VPN4302	CUSHION UL	1	
5	VPN4304	CUSHION LL	1	
6	VPN4606	CUSHION UR	1	
7	VPN4607	CUSHION LR	1	
8	VPF0673	POLYETHYLENE BAG	1	
9	VPG0L05	PACKING CASE	1	FOR AJ-D455E
9	VPG0L06	PACKING CASE	1	FOR AJ-D455MC
10	VPF0149	HANDLE COVER	2	
13	VXF0173	EMARGENCY EJECT ASS'Y	1	
15	VPF0679	AIR BAG	1	
16	VPK1856	M CASSETTE SOFT CASE	1	
⚠ 17	VQT9175	OPERATING INSTRUCTIONS	1	
18	VPF0887	POLYETHYLENE BAG	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

PACKING PARTS ASSEMBLY (AJ-YA455P)

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.



PACKING PARTS ASSEMBLY (AJ-YA455P)

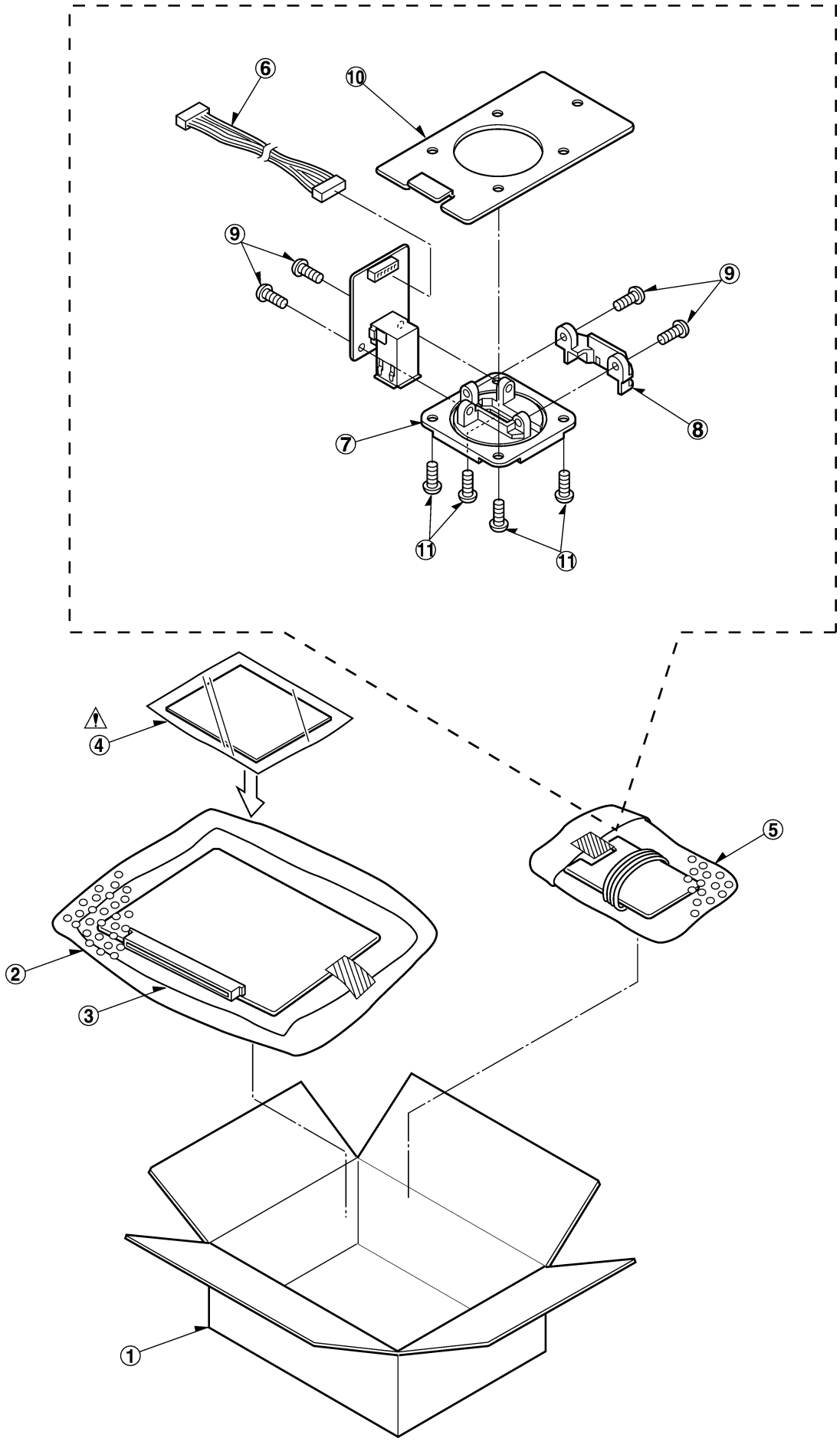
Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VJS3462	CONNECTOR (FEMALE)	5	K1SMBDBA0002
2	VPF0678	AIR CAP BAG	1	
3	VPF0359	POLYETHYLENE BAG	1	
⚠ 4	VQT9173	OPERATING INSTRUCTIONS	1	
5	VPF0679	AIR CAP BAG	1	
6	VPG6296	PACKING CASE	1	
7	VMP5900	JACK PANEL	1	
8	VEE9651	SR IN	1	K1RZBBB00003
9	VEE9653	SR OUT 3	1	K1RZBBB00006
10	VEE9652	SR THROUGH	1	K1RZBBB00008
11	VEE9654	SR OUT 2	1	K1RZBBB00009
12	VEE9655	SR OUT 1	1	K1RZBBB00007

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

PACKING PARTS ASSEMBLY (AJ-YAD455P)

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.



PACKING PARTS ASSEMBLY (AJ-YAD455P)

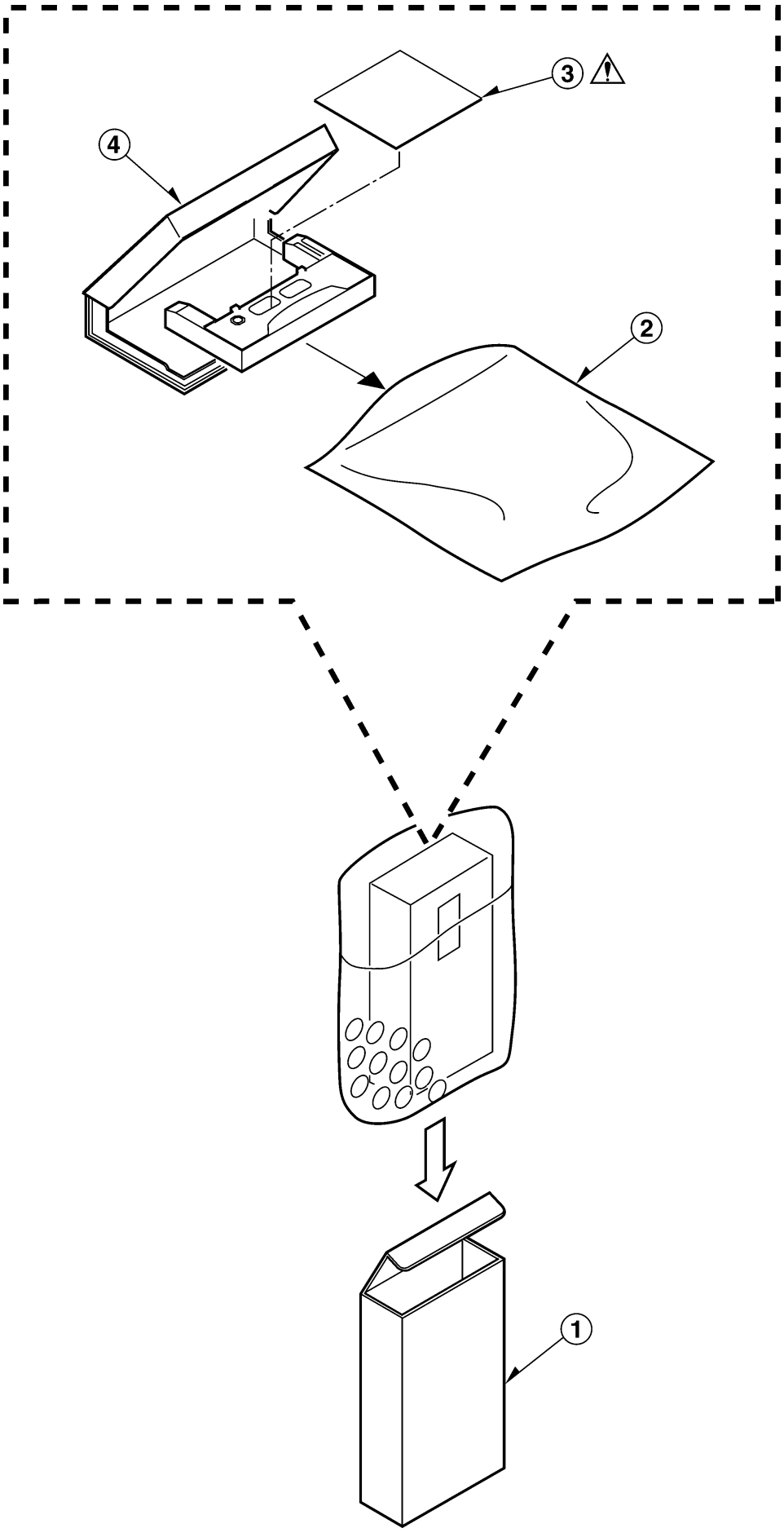
Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VPG6296	PACKING CASE	1	
2	VPF0678	AIR CAP BAG	1	
3	VPF0359	POLYETHYLENE BAG	1	
⚠ 4	VQT9174	OPERATIONG INSTRUCTIONS	1	
5	VPF0679	AIR CAP BAG	1	
6	VEE0N57	CABLE	1	
7	VJF1344	CONNECTOR HOLDER (1)	1	
8	VJF1345	CONNECTOR HOLDER (2)	1	
9	XYN2+J6	SCREW	4	
10	VMP6821	JACK PANEL	1	
11	XTN3+6FFY	SCREW	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

PACKING PARTS ASSEMBLY (AJ-CS455P)

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.



PACKING PARTS ASSEMBLY (AJ-CS455P)

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
1	VPG8753	PACKING CASE	1	
2	VPF0887	POLYETHYLENE BAG	1	
⚠ 3	VQT9175	OPERATING INSTRUCTIONS	1	
4	VPK1856	M CASSETTE SOFT CASE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

ELECTRICAL REPLACEMENT PARTS LIST (AJ-D455E/MC)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■E1	VEP84374A	F1 AUDIO P.C.BOARD0	1	(RTL)
■E2	VEP83557B	F2 V OUT P.C.BOARD0	1	(RTL)
■E4	VEP83554B	F4 D PROC P.C.BOARD0	1	(RTL)
■E4-1	VEP83555A	CSP SUB P.C.BOARD	1	(RTL)FOR VEP83554B
■E4-2	VSI3675B	DV UCOM P.C.BOARD	1	(RTL)FOR VEP83554B
■E5	VEP83553B	F5 V IN P.C.BOARD0	1	(RTL)
■E6	VEP86314B	F6 SYSCON P.C.BOARD0	1	(RTL)
■E7	VEP82238B	F7 SERVO P.C.BOARD0	1	(RTL)
■E8	VEP85196A	F8 RF EQ P.C.BOARD0	1	(RTL)
■E9	VEP85197A	RF CUE P.C.BOARD0	1	(RTL)
■E10	VEP80C14A	MOTHER P.C.BOARD0	1	(RTL)
■E11	VEP82239A	MECHA I/F P.C.BOARD0	1	(RTL)
■E12	VEP82240A	MECHA I/F 2 P.C.BOARD0	1	(RTL)
■E13	VEP81221B	POWER 1 P.C.BOARD0	1	(RTL)
■E14	VEP81222A	POWER 2 P.C.BOARD0	1	(RTL)
■E15	VEP80C13A	AV JACK P.C.BOARD0	1	(RTL)
■E16	VEP86315A	FRONT P.C.BOARD0	1	(RTL)
■E17	VEP80C15A	HEAD PHONE P.C.BOARD0	1	(RTL)
■E18	VEP80C16A	EJECT P.C.BOARD0	1	(RTL)
■E19	VEP80856A	CARRIGE P.C.BOARD0	1	(RTL)
■E1	VEP84374A	F1 AUDIO P.C.BOARD0	1	(RTL)
C4102,03	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4104-07	ECEA1HGE330	E.CAPACITOR 50V 33U	4	
C4108,09	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4110,11	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C4124,25	EEVHP1C100	E.CAPACITOR 16V 10U	2	
C4131,32	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	2	
C4133-36	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C4143-46	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	4	
C4200,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4202-05	EEVHB1C220	E.CAPACITOR 16V 22U	4	
C4206	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4207,08	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	2	
C4209,10	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	2	
C4211	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4212,13	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	2	
C4214,15	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	2	
C4216	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4217	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4218	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4220	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4221,22	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4223	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4224-27	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C4228-30	EEVHB1C220	E.CAPACITOR 16V 22U	3	
C4231	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4235-38	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C4239,40	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C4290	ECKF1H101KB	C.CAPACITOR 50V 100P	1	
C4320,21	EEVHP1C100	E.CAPACITOR 16V 10U	2	
C4400	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4401	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4402	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4403	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4404	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C4407-10	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C4411,12	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C4417	EEVHP1C100	E.CAPACITOR 16V 10U	1	
C4419,20	EEVHP1C100	E.CAPACITOR 16V 10U	2	
C4427-30	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C4431,32	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C4506,07	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4508,09	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4510,11	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4512,13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4514,15	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4516-19	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C4520,21	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2	
C4522,23	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	2	
C4524-27	ECA1CHG471	C.CAPACITOR 16V 470U	4	
C4700	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C4701,02	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4703,04	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C4705-11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C4805,06	ECUM1C394KBM	C.CAPACITOR CH 16V 0.39U	2	
C4807	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C4809,10	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4812	ECHU1C104J	P.CAPACITOR 16V 0.1U	1	
C4814	ECHU1C104J	P.CAPACITOR 16V 0.1U	1	
C4816,17	ECHU1C104J	P.CAPACITOR 16V 0.1U	2	
C4819-21	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	3	
C4822	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4823	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C4824	ECST1VY104Z	T.CAPACITOR CH 35V 0.1U	1	
C4825	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4826	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C4827	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4828	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4829-32	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C4833,34	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C4835	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4836	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4837	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4839,40	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4841	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4900	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4903	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4904	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4905	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4906,07	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4908	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4909	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C4910	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4911	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4912	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4913	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C4914	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4915	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
D4100-03	MA157	DIODE	4	
D4104	MA716	DIODE	1	
D4400	MA147	DIODE	1	
D4401-03	MA142WK	DIODE	3	
D4404	MA716	DIODE	1	
D4406	MA716	DIODE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D4407	MA142WK	DIODE	1	
D4800	MA716	DIODE	1	
D4900	MA152A	DIODE	1	
D4901	MA157	DIODE	1	
FL4700,01	VLF1466B223	LINE FILTER	2	
IC4100	C0ABBB000184	IC	1	
IC4101	THC4052FT	IC	1	
IC4102,03	C0ABBB000184	IC	2	
IC4104	THC4052FT	IC	1	
IC4105	C0ABBB000184	IC	1	
IC4106	THC4052FT	IC	1	
IC4107,08	C0ABBB000184	IC	2	
IC4109	THC4052FT	IC	1	
IC4110	XC62FP5002P	IC	1	
IC4111	XC62DN5002P	IC	1	
IC4200,01	NJM2100MD	IC	2	
IC4202	NVHC541MTCX	IC	1	
IC4204	C0FBZJ000003	IC	1	
IC4206	XC62FP5002P	IC	1	
IC4207	XC62FP3302P	IC	1	
IC4300	THC4052FT	IC	1	
IC4301	C0ABBB000184	IC	1	
IC4303	THC4052FT	IC	1	
IC4304	C0ABBB000184	IC	1	
IC4400	C0ABBB000184	IC	1	
IC4401	THC4052FT	IC	1	
IC4402	NJM4556AM	IC	1	C0ABBB000042
IC4403	XC62FP5002P	IC	1	
IC4404	XC62DN5002P	IC	1	
IC4407	XC62FP5002P	IC	1	
IC4408	XC62DN5002P	IC	1	
IC4410	NJM4556AM	IC	1	C0ABBB000042
IC4411	C0ABBB000184	IC	1	
IC4500	THC4052FT	IC	1	
IC4502,03	NJM4556AM	IC	2	C0ABBB000042
IC4504	THC4052FT	IC	1	
IC4506,07	NJM4556AM	IC	2	C0ABBB000042
IC4700	NVHC245MTCX	IC	1	
IC4701	EPM3256A1410	IC	1	
IC4800-02	C0ABBB000184	IC	3	
IC4803	TC4W53FU	IC	1	
IC4804	CXA1552M	IC	1	
IC4805	XC62FP5002P	IC	1	
IC4806	XC62DN5002P	IC	1	
IC4807	THC4052FT	IC	1	
IC4808	TC4W53FU	IC	1	
IC4809	NJM78L09UA	IC	1	C0CBAHC00002
IC4900	C0ABBB000184	IC	1	
IC4901	TC4W53FU	IC	1	
IC4902	C0FBZH000011	IC	1	
IC4903	XC62FP3302P	IC	1	
IC4904-06	C0ABBB000184	IC	3	
IC4907	THC4052FT	IC	1	
ID0	VVVSI3568	SOFTWARE	1	
P4001	K1KA96B00032	CONNECTOR (MALE)	1	
P4700	VJP3125B008	CONNECTOR (MALE)	1	
Q4400-03	2SB1219A-R	TRANSISTOR	4	
Q4404	2SD1328	TRANSISTOR	1	
Q4406,07	2SD1328	TRANSISTOR	2	
Q4500	2SD602A-R	TRANSISTOR	1	
Q4501	2SB710A-R	TRANSISTOR	1	
Q4502-07	2SD1328	TRANSISTOR	6	
Q4900-02	2SD1328	TRANSISTOR	3	
QR4201	UN5213	TRANSISTOR-RESISTOR	1	
QR4400,01	UN5213	TRANSISTOR-RESISTOR	2	
R4100,01	ERJ12YJ621	M.RESISTOR CH 1/2W 620	2	
R4102,03	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R4104-07	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4108-11	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	4	
R4112	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4113	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R4114	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R4115	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4116	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R4117	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R4118	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4119	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R4120	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R4121	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4122	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R4123	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R4124	ERJ3GEYJ335	M.RESISTOR CH 1/16W 3.3M	1	
R4125	ERJ3RED470	M.RESISTOR CH 1/16W 47	1	
R4126	ERJ3RBD911	M.RESISTOR CH 1/16W 910	1	
R4127	ERJ3GEYJ335	M.RESISTOR CH 1/16W 3.3M	1	
R4128	ERJ3RED470	M.RESISTOR CH 1/16W 47	1	
R4129	ERJ3RBD911	M.RESISTOR CH 1/16W 910	1	
R4130	ERJ3GEYJ335	M.RESISTOR CH 1/16W 3.3M	1	
R4131	ERJ3RED470	M.RESISTOR CH 1/16W 47	1	
R4132	ERJ3RBD911	M.RESISTOR CH 1/16W 910	1	
R4133	ERJ3GEYJ335	M.RESISTOR CH 1/16W 3.3M	1	
R4134	ERJ3RED470	M.RESISTOR CH 1/16W 47	1	
R4135	ERJ3RBD911	M.RESISTOR CH 1/16W 910	1	
R4136-41	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	6	
R4142,43	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R4144,45	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4146,47	ERJ3RED470	M.RESISTOR CH 1/16W 47	2	
R4148,49	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R4150,51	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R4152,53	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	2	
R4154,55	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R4156,57	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R4158,59	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R4160	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R4161	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R4162	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4163	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4164	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R4165	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R4166	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4167	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4168	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4169	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R4170	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4171	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4172	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R4173	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4174	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R4175	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R4176,77	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4178,79	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R4180-83	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4186-89	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R4200	D1H84704A008	COMBI.R-R	1	
R4201	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4202	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4203,04	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4205,06	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R4207,08	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4209,10	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	2	
R4211,12	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4213-16	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	4	
R4217-20	ERJ3RBD331	M.RESISTOR CH 1/16W 330	4	
R4221	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4222,23	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4224	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4226	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4227	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4228,29	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4231,32	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4233-37	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	5	
R4238-41	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	
R4300,01	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4302	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4304,05	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4308	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4309	ERJ3RBD362	M.RESISTOR CH 1/16W 3.6K	1	
R4310	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R4311	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4312	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R4313	ERJ3RBD362	M.RESISTOR CH 1/16W 3.6K	1	
R4314	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R4315	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4324	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4325	ERJ3RBD241	M.RESISTOR CH 1/16W 240	1	
R4326	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R4327	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4328	ERJ3RBD241	M.RESISTOR CH 1/16W 240	1	
R4329	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R4344-46	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	3	
R4364,65	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	2	
R4368,69	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R4372,73	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R4378-80	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R4382,83	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R4386,87	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4392,93	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4396	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4403,04	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4405	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4406	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4407	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R4408	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4409	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4410,11	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4412,13	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R4414	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R4415	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R4416	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4418	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4419	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4420	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4421	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4424,25	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R4427,28	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R4431	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4433	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4437	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R4439	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4440	ERJ3RBD203	M.RESISTOR CH 1/16W 20K	1	
R4442	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4443-45	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
R4447	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R4448	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4451	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4452	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4453	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4454	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4456,57	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4459	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4500,01	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4502,03	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R4504	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R4505	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4506	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4507	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R4508	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R4509	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4510	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4511	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R4512,13	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R4514	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4515	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4516	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R4517	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R4518	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R4519	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R4520	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4521,22	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4523	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4524,25	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R4526,27	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R4530,31	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R4532,33	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	2	
R4534,35	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	2	
R4536-43	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	8	
R4544-47	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	4	
R4548,49	ERJ3RED150	M.RESISTOR CH 1/16W 15	2	
R4550-53	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	4	
R4554,55	ERJ3RED150	M.RESISTOR CH 1/16W 15	2	
R4556-59	ERJ14YJ220	M.RESISTOR CH 1/4W 22	4	
R4560-63	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	4	
R4564-67	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R4568-73	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	6	
R4700	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4702	D1H84734A008	COMBI.R-R	1	
R4703	EXBV8V102J	COMBI.R-R 1K	1	
R4704	D1H84734A008	COMBI.R-R	1	
R4705,06	ERJ6GEYG470	M.RESISTOR CH 1/10W 47	2	
R4707,08	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R4710	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R4712,13	D1H84734A008	COMBI.R-R	2	
R4715-17	D1H84734A008	COMBI.R-R	3	
R4803	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4805	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4808	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4809	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4812	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4813	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R4814	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4815	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R4819	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4820	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4823	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	1	
R4825	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4826	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R4827	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R4829	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R4832	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4835	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R4836	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4837	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R4838	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4839	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4840	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4841	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4842-45	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	
R4847	ERJ3RBD202	M.RESISTOR CH 1/16W 2K	1	
R4848	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R4850	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R4851	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R4852	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4853	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4900	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4901,02	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	2	
R4903	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R4904	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R4905	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4906	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4907,08	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R4909	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R4910	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	1	
R4911	ERJ3GEYJ912	M.RESISTOR CH 1/16W 9.1K	1	
R4912	ERJ3RED124	M.RESISTOR CH 1/16W 120K	1	
R4913	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R4914	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R4915	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4916	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R4917	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	1	
R4918	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4919	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4920	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R4921	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4922	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R4923	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4924	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R4925	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R4926	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R4927	ERJ3GEYJ202	M.RESISTOR CH 1/16W 2K	1	
R4928	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R4929	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R4930,31	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R4932	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R4933	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R4934	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R4935	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R4936	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4937	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R4938	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R4939	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4940	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4941	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4942	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R4943,44	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R4945	D1H84704A008	COMBI.R-R	1	
R4946	ERJ6GEYG563	M.RESISTOR CH 1/10W 56K	1	
SW4100,01	VSS0126	SWITCH	2	
TG4100	EYF6CU	TEST POINT	1	
TG4200	EYF6CU	TEST POINT	1	
TG4500	EYF6CU	TEST POINT	1	
TG4800	EYF6CU	TEST POINT	1	
TP4200,01	EYF6CU	TEST POINT	2	
TP4300,01	EYF6CU	TEST POINT	2	
TP4400	EYF6CU	TEST POINT	1	
TP4500,01	EYF6CU	TEST POINT	2	
TP4801	EYF6CU	TEST POINT	1	
TP4901	EYF6CU	TEST POINT	1	
VR4200,01	EVMEGSA00B14	V.RESISTOR 10K	2	
VR4300,01	EVMEGSA00B14	V.RESISTOR 10K	2	
VR4800	EVMEGSA00B54	V.RESISTOR 50K	1	
VR4802	EVMEGSA00B24	V.RESISTOR 20K	1	
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E2	VEP83557B	F2 V OUT P.C.BOARD0	1	(RTL)
C104	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C105	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C106	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C107	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C150-52	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C153	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C200-05	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C206	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C207,08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C209	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C210-22	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	13	
C230	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C231-38	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C260-63	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C300,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C302	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C304	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C305	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C306	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C307	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C308	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C309,10	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	2	
C311	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C313,14	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C316	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C318	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C320	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C321	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C322,23	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C324	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C325-27	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C330,31	ECUX1H560JCV	C.CAPACITOR CH 50V 56P	2	
C332-37	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C338	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C339	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C340,41	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C400-03	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C404,05	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C406-09	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C410,11	ECUX1H560JCV	C.CAPACITOR CH 50V 56P	2	
C412,13	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C416,17	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	2	
C418-21	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C422	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C423-30	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C431-33	ECUX1H181JCV	C.CAPACITOR CH 50V 180P	3	
C434-36	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	3	
C440-43	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C444,45	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C446,47	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C448	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C449-53	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C454	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C455	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C456	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C457	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C458	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C459	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C460	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C461	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C462	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C463	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C464-69	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C470	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C471-77	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C479	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C480-83	EEVHB0J470	E.CAPACITOR 6.3V 47U	4	
C486-89	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C490	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C491	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C492,93	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C494	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C500-07	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C508-11	EEVHB0J470	E.CAPACITOR 6.3V 47U	4	
C512	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C513	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C514	ECUX1H070DCV	C.CAPACITOR CH 50V 7P	1	
C516	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C517-29	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	13	
C530-34	ECUX1H181JCV	C.CAPACITOR CH 50V 180P	5	
C535-39	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	5	
C540	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C560	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C561,62	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C563	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C564	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C565	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C566,67	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C568	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C569	ECUX1H181JCV	C.CAPACITOR CH 50V 180P	1	
C570,71	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C572	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C573	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C574-76	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C577	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C578,79	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C580-83	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C584	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C585,86	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C587	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C589	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C590,91	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	2	
C592,93	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C600,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C602	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C603,04	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C605-07	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C608	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C609	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C610-12	EEVHB0J470	E.CAPACITOR 6.3V 47U	3	
C613,14	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C615,16	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C617,18	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C619	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C620,21	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C623-25	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C626	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C627,28	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C630	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C631	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C632	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C633	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C634,35	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C636	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C637	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C638	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C639	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C640	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C642	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C644	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C700,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C703-06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C707	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C800	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
D400-02	MA3068-M	DIODE	3	
D500-04	MA3068-M	DIODE	5	
D560	MA142WK	DIODE	1	
D561	MA716	DIODE	1	
D600	MA142K	DIODE	1	
D601	MA335-R	DIODE	1	
D602	MA142K	DIODE	1	
D700	LN1251CAL	DIODE	1	
FL302,03	VLF1476	FILTER	2	J0E3504B0004
FL304	VLF1354	FILTER	1	
FL450	VLF1354	FILTER	1	
FL453	VLF1354	FILTER	1	
IC150,51	NVHC541MTCX	IC	2	
IC152	NVHC245MTCX	IC	1	
IC200	C1ZBZ0001836	IC	1	
IC201	C0CBAAB00021	IC	1	
IC203,04	NVHC541MTCX	IC	2	
IC230	UPD65944G020	IC	1	
IC260-62	NVHC541MTCX	IC	3	
IC263	74LCX240MTCX	IC	1	
IC300	XC62FP5002P	IC	1	
IC301	C0ZBZ0000505	IC	1	
IC303	XC62FP5002P	IC	1	
IC304	XC62DN5002P	IC	1	
IC305	NJM2534V	IC	1	
IC400	XC62FP5002P	IC	1	
IC401	XC62DN5002P	IC	1	
IC402	XC62FP5002P	IC	1	
IC403	XC62DN5002P	IC	1	
IC404-06	AD8055AR	IC	3	
IC450	XC62FP5002P	IC	1	
IC451	XC62DN5002P	IC	1	
IC452	XC62FP5002P	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC453	NJM2534V	IC	1	
IC454	XC62DN5002P	IC	1	
IC455	AD8055AR	IC	1	
IC456	XC62FP5002P	IC	1	
IC457	XC62DN5002P	IC	1	
IC458	XC62FP5002P	IC	1	
IC459	XC62DN5002P	IC	1	
IC460,61	AD8055AR	IC	2	
IC500	XC62FP5002P	IC	1	
IC501	XC62DN5002P	IC	1	
IC502	XC62FP5002P	IC	1	
IC503	XC62DN5002P	IC	1	
IC504	NJM2534V	IC	1	
IC505	TVHT08FT	IC	1	
IC560	NJM78L09UA	IC	1	C0CBAHC00002
IC561	AN91A12S	IC	1	
IC562	XC62FP5002P	IC	1	
IC563	XC62DN5002P	IC	1	
IC564,65	NJM360M	IC	2	C0BBZB000001
IC566	TVHT04FT	IC	1	
IC567	TVHT00F	IC	1	
IC568	SN74LS221NS	IC	1	
IC600	THC4053FT	IC	1	
IC601	NJM082BV	IC	1	
IC602	NJM360M	IC	1	C0BBZB000001
IC603	NJM082BV	IC	1	
IC604	XC62FP5002P	IC	1	
IC605	XC62DN5002P	IC	1	
IC606	NJM082BV	IC	1	
IC607	TVHC125FT	IC	1	
IC608	NJM360M	IC	1	C0BBZB000001
IC700	UPD65650J203	IC	1	C1ZBZ0001380
IC701,02	TVHT244FT	IC	2	
ID0	VVVSI3560	SOFTWARE	1	
IP202	C1ZBZ0001555	IC	1	
L100,01	VLF1151A132	COIL	2	
L400,01	VLQ0163J560	COIL 56UH	2	
L402	VLQ0163J120	COIL 12UH	1	G1C120J00001
L450	VLQ0163J120	COIL 12UH	1	G1C120J00001
L500	VLQ0163J180	COIL 18UH	1	G1C180J00001
L560	VLQ0163J101	COIL 100UH	1	
L561	VLQ0163J221	COIL 220UH	1	G1C221J00003
L562	VLQ0163J390	COIL 39UH	1	
L600	VLQ0163J470	COIL 47UH	1	
L601	VLQ0163J221	COIL 220UH	1	G1C221J00003
L602-05	VLQ0163J470	COIL 47UH	4	
P1,P2	K1KA96B00032	CONNECTOR (MALE)	2	
P3	VJP3125B008	CONNECTOR (MALE)	1	
Q300	2SB709A	TRANSISTOR	1	
Q301-05	2SD601A	TRANSISTOR	5	
Q306-08	2SB709A	TRANSISTOR	3	
Q309-13	2SD601A	TRANSISTOR	5	
Q314	2SA1532-B	TRANSISTOR	1	
Q315	2SB709A	TRANSISTOR	1	
Q400-02	2SB709A	TRANSISTOR	3	
Q403-08	2SD601A	TRANSISTOR	6	
Q450,51	2SB709A	TRANSISTOR	2	
Q452-56	2SD601A	TRANSISTOR	5	
Q458	2SB709A	TRANSISTOR	1	
Q459,60	2SA1532-B	TRANSISTOR	2	
Q461	2SB709A	TRANSISTOR	1	
Q462,63	2SD601A	TRANSISTOR	2	
Q464	2SB709A	TRANSISTOR	1	
Q500	2SA1532-B	TRANSISTOR	1	
Q501-06	2SB709A	TRANSISTOR	6	
Q507-16	2SD601A	TRANSISTOR	10	
Q600	2SB709A	TRANSISTOR	1	
Q601,02	2SK608	TRANSISTOR	2	
QR200	UN5213	TRANSISTOR-RESISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
QR500	UN5113	TRANSISTOR-RESISTOR	1	
QR501	UN5213	TRANSISTOR-RESISTOR	1	
QR700	UN5213	TRANSISTOR-RESISTOR	1	
R100	EXBV8V102J	COMBI.R-R 1K	1	
R150,51	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R152,53	D1H84734A008	COMBI.R-R	2	
R155	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R200-02	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R206,07	EXBV8V102J	COMBI.R-R 1K	2	
R208	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R209,10	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R211,12	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R213	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R230-35	EXBV8V330J	COMBI.R-R 33	6	
R260-63	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R270-75	EXBV8V330J	COMBI.R-R 33	6	
R280-82	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R283-86	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	4	
R287	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R300	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R301	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R303	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R305	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R306	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R307	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R308,09	ERJ3RBD561	M.RESISTOR CH 1/16W 560	2	
R312,13	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R315,16	ERJ3RBD151	M.RESISTOR CH 1/16W 150	2	
R317,18	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R319,20	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R321	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R322	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R323	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R324	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R325	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	
R326	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R327	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R328	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R329-32	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R333,34	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R335	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R336	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R337	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R338	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R339,40	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	2	
R341	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R342	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R343	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R344	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R345	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R346	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R347	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R348,49	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	2	
R350	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R351	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R352,53	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R354	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R355	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R356	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R362	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R363	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R400,01	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R404,05	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	2	
R406	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R407	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R408,09	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R410	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R411	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R412	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R413	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R414-16	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	3	
R417-19	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	3	
R420-22	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R423-25	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R426-31	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	6	
R432	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R433	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R434	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R435	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R436	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R437	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R438,39	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R440	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	
R441	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R442-44	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R445	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R446	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R447	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1	
R448	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R449	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R451	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1	
R452	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R453	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R455	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R456	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R457	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R460	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R461	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R462	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R463	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R464	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R467	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R468	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R469	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R470	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R471	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R472	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R473	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R474	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R475	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R477	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R478	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R479,80	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R481	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R482	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R483	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R484,85	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	2	
R487	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R488	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R490	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R491	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R492	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R493-95	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R500	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R501	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R502	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R503	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R504	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R505	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R507	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R509	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R510	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R511-14	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	4	
R515	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R516-20	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	5	
R521-25	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	5	
R526-30	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	5	
R531-40	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	10	
R541	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R542	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R543	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R544	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R545	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R546	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R547	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R548	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R549	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R550	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R551,52	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R560	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R561	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	1	
R562	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R563	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R564	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R565,66	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	2	
R567	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R568	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R569	ERJ3GEYJ184	M.RESISTOR CH 1/16W 180K	1	
R570	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R571	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R572,73	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R574	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R575	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R577	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R579,80	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R582	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R600	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R601	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R602	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R603	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R604	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R605	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R606	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R607	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R608	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R609	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R610,11	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R612	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R613	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R614	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R615	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R618	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R620	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R622	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R623	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R624	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R625	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R626	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R627	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R630	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R631	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R632	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R633	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R634,35	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R636	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R637	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R638	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R639	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R641	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R642	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R700-02	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R704	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R705	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R800	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R801,02	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R908-12	EXBV8V330J	COMBI.R-R 33	5	
R913	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
TG560	EYF6CU	TEST POINT	1	
TG700	EYF6CU	TEST POINT	1	
TP200	EYF6CU	TEST POINT	1	
TP560-62	EYF6CU	TEST POINT	3	
TP600	EYF6CU	TEST POINT	1	
TP701-06	EYF6CU	TEST POINT	6	
VC600	ECV1ZW20X53T	TRIMMER	1	
VR301	EVMEGSA00B12	V.RESISTOR 100	1	
VR302,03	EVMEGSA00B13	V.RESISTOR 1K	2	
VR400-02	EVMEGSA00B52	V.RESISTOR 500	3	
VR452	EVMEGSA00B12	V.RESISTOR 100	1	
VR453	EVMEGSA00B52	V.RESISTOR 500	1	
VR455	EVMEGSA00B12	V.RESISTOR 100	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
VR456	EVMEGSA00B13	V.RESISTOR 1K	1	
VR560	EVMEGSA00B14	V.RESISTOR 10K	1	
VR600	EVMEGSA00B14	V.RESISTOR 10K	1	
X600	VSX0316	CRYSTAL OSCILLATOR	1	
X601	VSX0788	CRYSTAL OSCILLATOR	1	H1C2705B0006
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E4	VEP83554B	F4 D PROC P.C.BOARD0	1	(RTL)
■ E4-1	VEP83555A	CSP SUB P.C.BOARD	1	(RTL)FOR VEP83554B
■ E4-2	VEP3675B	DV UCOM P.C.BOARD	1	(RTL)FOR VEP83554B
C3021	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3022	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3025-28	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C3029	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3032-34	EEVHB0J470	E.CAPACITOR 6.3V 47U	3	
C3035	VCEA1AAP101	E.CAPACITOR 10V 100U	1	
C3036-42	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C3043	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3044-48	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C3049-52	EEVHB0J470	E.CAPACITOR 6.3V 47U	4	
C3053-57	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C3059,60	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3061,62	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C3064	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3066	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3067	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3068	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3069	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3071-73	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3074	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3100	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	FOR VEP83555A
C3101,02	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3103	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3104	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3108	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP83555A
C3113,14	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	FOR VEP83555A
C3117	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP83555A
C3120,21	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3121 02	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	FOR VEP83555A
C3122	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3123	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3124	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3125	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3127	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3177,78	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3190	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3191	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3192	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3193	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3194,95	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3196	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C3197,98	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3200-06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	FOR VEP83555A
C3207	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	FOR VEP83555A
C3208	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	FOR VEP83555A
C3209	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	FOR VEP83555A
C3210,11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	FOR VEP83555A
C3212,13	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	FOR VEP83555A
C3214	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	FOR VEP83555A
C3215,16	ECUX1H030CCV	C.CAPACITOR CH 50V 3P	2	FOR VEP83555A
C3217-19	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	FOR VEP83555A
C3222	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
C3223-25	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3226	ECUX1H090CCV	C.CAPACITOR CH 50V 9P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3228	ECUX1H100CCV	C.CAPACITOR CH 50V 10P	1	
C3230	EEVHP1E3R3	E.CAPACITOR 25V 3.3U	1	
C3232	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3233	ECUM1C224KBN	C.CAPACITOR CH 16V 0.22U	1	
C3234,35	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3236	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3237,38	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3239	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3240,41	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3242	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3243	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C3244	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3245	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C3246,47	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C3248-52	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C3253	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3254	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3255	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3256	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3257	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3258	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3300,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3303	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3306	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP83555A
C3311,12	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	FOR VEP83555A
C3315	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP83555A
C3318	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP83555A
C3319	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	FOR VEP83555A
C3320-23	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	FOR VEP83555A
C3331-38	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C3340-49	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	10	
C3350	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C3381-85	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C3400,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3402	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3403	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3404	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3405	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3406	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3406	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP83555A
C3407	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	FOR VEP83555A
C3407,08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3408	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	FOR VEP83555A
C3409	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	FOR VEP83555A
C3409,10	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3411	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3412	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3412	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	FOR VEP83555A
C3413	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3413	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	FOR VEP83555A
C3414-19	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C3420	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C3421,22	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C3451,52	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3500	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	FOR VEP83555A
C3501	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP83555A
C3502	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	FOR VEP83555A
C3503	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	FOR VEP83555A
C3504	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	FOR VEP83555A
C3505	ECUX1A105KBV	C.CAPACITOR CH 10V 1U	1	FOR VEP83555A
C3506-02	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	7	FOR VEP83555A
C3512-15	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C3516	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C3541-46	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C3631-36	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C3661-65	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C3701-07	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C3708	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C3751-58	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C3759	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4200,01	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C4202-06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C4300-07	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C4310,11	EEVHB0J101	E.CAPACITOR 6.3V 100U	2	
C4312	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C4313	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C4314,15	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4316	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4400	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4401-06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C4500-04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C4505	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C4600	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4601,02	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	2	
C4603,04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
D3021-23	MA701A	DIODE	3	
D3190	MA142K	DIODE	1	
IC3021	LT1086CM	IC	1	C0CBAYG00001
IC3022	XC62FP3202P	IC	1	
IC3025-28	XC62FP3202P	IC	4	
IC3029,30	C0CBAAB00021	IC	2	
IC3031,32	XC62FP2302P	IC	2	
IC3033	C0CBAAB00021	IC	1	
IC3035	XC62FP5002P	IC	1	
IC3036	XC62FP2302P	IC	1	
IC3037	XC62DN5002P	IC	1	
IC3071	NVHC245MTCX	IC	1	
IC3072,73	NVHC541MTCX	IC	2	
IC3100	XC62FP2502PR	IC	1	FOR VEP83555A
IC3101	C1AB00000922	IC	1	FOR VEP83555A
IC3121-27	NVHC541MTCX	IC	7	
IC3171,72	NVHC244F	IC	2	
IC3190	NJM082BV	IC	1	
IC3191	74LCX125MTCX	IC	1	
IC3200	MN2MD00006F	IC	1	FOR VEP83555A
IC3201	74LCX125MTCX	IC	1	FOR VEP83555A
IC3202,03	74AHC1GU04CK	IC	2	FOR VEP83555A
IC3221	NJM082BV	IC	1	
IC3222	BH7086KV	IC	1	C1ZBZ0001649
IC3223	74AHC1GU04CK	IC	1	
IC3224	NJM082BV	IC	1	
IC3225,26	74AHC1GU04CK	IC	2	
IC3227	C0JBAZ000280	IC	1	
IC3228-30	74LCX244MTCX	IC	3	
IC3231	74LCX257MTCX	IC	1	
IC3232-34	74LCX244MTCX	IC	3	
IC3300	C1AB00000922	IC	1	FOR VEP83555A
IC3301	MS51V8221-3G	IC	1	
IC3303	MS51V8221-3G	IC	1	
IC3331	C1ZBZ0001836	IC	1	
IC3381,82	NVHC244F	IC	2	
IC3383,84	C0JBAZ001728	IC	2	
IC3385	NVHC244F	IC	1	
IC3400	MN2MD00006F	IC	1	FOR VEP83555A
IC3401	C1ZBZ0001836	IC	1	
IC3451,52	MS51V8221-3G	IC	2	
IC3500	XC62FP3202P	IC	1	FOR VEP83555A
IC3501	AN3742FHN-EB	IC	1	FOR VEP83555A
IC3511	UPD65943G028	IC	1	
IC3541	DS90LV048A	IC	1	
IC3542	DS90LV047A	IC	1	
IC3631	C1ZBZ0001454	IC	1	
IC3632	NVHC541MTCX	IC	1	
IC3661	C1ZBZ0001454	IC	1	
IC3702	C0JBAZ000280	IC	1	
IC3752,53	C0JBAZ000280	IC	2	
IC4200,01	PLL1700E	IC	2	
IC4202	NVHC244F	IC	1	
IC4300	C1ZBZ0001836	IC	1	
IC4302	C1BB00000529	IC	1	
IC4400,01	M5256DVP10VL	IC	2	C3BBFC000171
IC4402	C1AB00001135	IC	1	
IC4500	M5256DVP10VL	IC	1	C3BBFC000171
IC4501	UPD65949G076	IC	1	
IC4600	C0JBAB000244	IC	1	
IC4601,02	AD1893JST	IC	2	
ID0	VVVSI3556	SOFTWARE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IP3101,02	C1ZBZ0001555	IC	2	
JP3000	VJR1008	EARTH LUG	1	FOR VEP83555A
L3190,91	VLQ0319K470	COIL 47UH	2	G1C470K00013
L3222	VLQ0163J6R8	COIL 6.8UH	1	G1C6R8J00007
L3223	VLQ0163J120	COIL 12UH	1	G1C120J00001
L3224-28	VLQ0319K470	COIL 47UH	5	G1C470K00013
L3401,02	VLQ0319K470	COIL 47UH	2	G1C470K00013
L4200,01	VLQ0319K470	COIL 47UH	2	G1C470K00013
L4301-03	VLQ0319K470	COIL 47UH	3	G1C470K00013
P3000	VJS4064N160E	CONNECTOR (FEMALE)	1	K1KAG0A00006
P3001,02	VJP3454B096	CONNECTOR (MALE)	2	K1KA96B00021
P3101	VJP3125B008	CONNECTOR (MALE)	1	
P3381	VJP4064N160C	CONNECTOR (MALE)	1	K1KBG0A00006
P3471	VJS4106A120L	CONNECTOR (FEMALE)	1	
P3491	VJS4106A120L	CONNECTOR (FEMALE)	1	
R3001	D1H810140001	COMBI.R-R	1	
R3021	ERJ6RBD131	M.RESISTOR CH 1/10W 130	1	
R3022	ERJ6RBD201	M.RESISTOR CH 1/10W 200	1	
R3071	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3072,73	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3074,75	D1H84734A008	COMBI.R-R	2	
R3076,77	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R3100	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3102	EXBV8V102J	COMBI.R-R 1K	1	
R3103	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3104	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3105	EXBV8V102J	COMBI.R-R 1K	1	
R3106	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP83555A
R3107	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	FOR VEP83555A
R3115	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP83555A
R3116-19	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	FOR VEP83555A
R3121	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3122	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3122	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	FOR VEP83555A
R3123	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3123	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	FOR VEP83555A
R3124	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3124	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	FOR VEP83555A
R3125	D1H84704A008	COMBI.R-R	1	
R3125	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	FOR VEP83555A
R3126	D1H84704A008	COMBI.R-R	1	
R3126	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3127	D1H84704A008	COMBI.R-R	1	
R3127	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3128	D1H84704A008	COMBI.R-R	1	
R3129	D1H84734A008	COMBI.R-R	1	
R3132-35	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R3136-39	D1H84704A008	COMBI.R-R	4	
R3140	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3141-44	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R3171,72	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3173-75	D1H84704A008	COMBI.R-R	3	
R3183	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3184,85	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3190	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3191	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3192-94	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R3195	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3196	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3197	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3198,99	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3200	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3200	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	FOR VEP83555A
R3201	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3201	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3202	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	FOR VEP83555A
R3204	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	FOR VEP83555A
R3205	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	FOR VEP83555A
R3206-08	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	FOR VEP83555A
R3209	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3210	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	FOR VEP83555A
R3211	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	FOR VEP83555A
R3212	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	FOR VEP83555A
R3213	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	FOR VEP83555A
R3214,15	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	FOR VEP83555A
R3216	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	FOR VEP83555A
R3217	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	1	FOR VEP83555A
R3218,19	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	FOR VEP83555A
R3221	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3222	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP83555A
R3222	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3223	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3224	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3224	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	FOR VEP83555A
R3225	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3225	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP83555A
R3226	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3227	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R3227	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	FOR VEP83555A
R3228	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3228	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	FOR VEP83555A
R3229	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3230	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R3231	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3232	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3234	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3237	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R3239	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3240	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R3241	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3242	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3243	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R3244-46	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	3	
R3247	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3248	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3249	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3250	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R3251	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3252	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3253	ERJ3GEYJ302	M.RESISTOR CH 1/16W 3K	1	
R3254	ERJ3GEYJ184	M.RESISTOR CH 1/16W 180K	1	
R3255,56	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	2	
R3257,58	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	2	
R3261-63	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R3264-81	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	18	
R3283-85	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	3	
R3287	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3300	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3301,02	D1H84704A008	COMBI.R-R	2	
R3303	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3305	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3307	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP83555A
R3308	D1H84704A008	COMBI.R-R	1	
R3308	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3309	D1H84704A008	COMBI.R-R	1	
R3309	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3310	D1H84734A008	COMBI.R-R	1	
R3310	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3311	D1H84734A008	COMBI.R-R	1	
R3314	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3331,32	D1H84704A008	COMBI.R-R	2	
R3334	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R3337	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3338	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3381	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3383	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3388,89	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3390	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3391	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3394,95	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3397	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3400	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3401	D1H84704A008	COMBI.R-R	1	
R3401	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP83555A
R3402	D1H84704A008	COMBI.R-R	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3403	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	FOR VEP83555A
R3404	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	FOR VEP83555A
R3406	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	FOR VEP83555A
R3407	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	FOR VEP83555A
R3408	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3408	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3409	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3411	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3451,52	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3471-74	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	4	
R3475-77	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R3478	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	1	
R3479-85	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	7	
R3491-94	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	4	
R3495-97	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R3498	ERJ3GEYJ203	M.RESISTOR CH 1/16W 20K	1	
R3499	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3501	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	FOR VEP83555A
R3502	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	FOR VEP83555A
R3504	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	FOR VEP83555A
R3505	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	FOR VEP83555A
R3508	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	FOR VEP83555A
R3511	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3512	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3541-48	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	8	
R3549-56	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	8	
R3601	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3633	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3636	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3662	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R3701	EXBV8V102J	COMBI.R-R 1K	1	
R3706	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3707	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3709-11	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R3751	EXBV8V102J	COMBI.R-R 1K	1	
R3757	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3758	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3761-63	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R4200,01	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R4202	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4203-08	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	6	
R4302	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R4303	D1H84734A008	COMBI.R-R	1	
R4700	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
TG3071-76	EYF6CU	TEST POINT	6	
TP3209	EYF6CU	TEST POINT	1	FOR VEP83555A
TP3211	EYF6CU	TEST POINT	1	FOR VEP83555A
TP3408	EYF6CU	TEST POINT	1	FOR VEP83555A
TP3411	EYF6CU	TEST POINT	1	FOR VEP83555A
TP3471	EYF6CU	TEST POINT	1	
TP3473	EYF6CU	TEST POINT	1	
TP3478	EYF6CU	TEST POINT	1	
TP3491	EYF6CU	TEST POINT	1	
TP3493,94	EYF6CU	TEST POINT	2	
TP3504	EYF6CU	TEST POINT	1	
TP4302,03	EYF6CU	TEST POINT	2	
X3190	VSX0788	CRYSTAL OSCILLATOR	1	H1C2705B0006
X3200	VSX0645	CRYSTAL OSCILLATOR	1	FOR VEP83555A
X4600	VSX0519	CRYSTAL OSCILLATOR	1	H0D160500011
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
	VMX2020	P.C.BOARD POST	2	K9ZZ00000689 FOR VEP83555A
	XYN3+K6	SCREW	4	FOR VEP83555A
■ E5	VEP83553B	F5 V IN P.C.BOARD0	1	(RTL)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3001	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3003	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3005-07	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3008	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3010	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3012	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3013	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3015	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3017	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3018	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3019-25	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C3026,27	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C3028,29	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3030-34	EEVHB0J470	E.CAPACITOR 6.3V 47U	5	
C3035-46	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	12	
C3047-52	EEVHB0J470	E.CAPACITOR 6.3V 47U	6	
C3053-57	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C3058	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3059-61	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3062	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3063	ECA1AKF390	E.CAPACITOR 10V 39U	1	
C3109	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3110,11	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C3112,13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3115	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3120	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C3121-23	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3124	EEVHB1H4R7	E.CAPACITOR 50V 4.7U	1	
C3125	ECHU1H683JB	P.CAPACITOR 50V 0.068U	1	
C3128	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C3130	ECUX1H821JCV	C.CAPACITOR CH 50V 820P	1	
C3131	EEVHB0J330	E.CAPACITOR 6.3V 33U	1	
C3132	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C3134	ECHU1C392J	P.CAPACITOR 16V 3900P	1	
C3135	ECUM1C334KBM	C.CAPACITOR CH 16V 0.33U	1	
C3136	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C3137	ECHU1C152J	P.CAPACITOR 16V 1500P	1	
C3139	ECUX1C684KBM	C.CAPACITOR CH 16V 0.68U	1	
C3140	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C3141,42	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3144	EEVHB0J330	E.CAPACITOR 6.3V 33U	1	
C3145	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3160	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3161	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3162	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3163	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3164-68	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C3169	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C3170	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3173	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3175-77	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3178	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C3179-89	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	11	
C3190,91	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C3192,93	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3200	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3201-13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	13	
C3300	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3301	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3302	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C3303	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C3304	ECUX1H080DCV	C.CAPACITOR CH 50V 8P	1	
C3305,06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3307	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C3309	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C3310-13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C3314	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3315	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3316	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3317	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3318	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C3319	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C3320	ECUX1H080DCV	C.CAPACITOR CH 50V 8P	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3321,22	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3323	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C3325-30	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C3332	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3333	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3334	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C3335	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	1	
C3336	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C3338	ECUX1H070DCV	C.CAPACITOR CH 50V 7P	1	
C3339	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C3340,41	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	2	
C3342	ECUX1H330JCV	C.CAPACITOR CH 50V 33P	1	
C3343-45	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3347	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C3401	ECUM1H104KBN	C.CAPACITOR CH 50V 0.1U	1	
C3402	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3403,04	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C3405-08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C3409	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C3410,11	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C3412	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C3413-15	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3416	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C3417	ECUM1C474KBM	C.CAPACITOR CH 16V 0.47U	1	
C3418	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C3419	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3420	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3421-24	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C3450	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3451	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3452	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3453	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3454	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3455	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3456	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C3457	ECUX1H040CCV	C.CAPACITOR CH 50V 4P	1	
C3458	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3459	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C3460	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3461	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3462	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3463	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3464	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3465	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3466	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3467	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3468	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3469	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C3470	ECUX1H040CCV	C.CAPACITOR CH 50V 4P	1	
C3471	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3472	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C3473	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3474,75	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C3476	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C3477-79	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3480	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C3481,82	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C3501	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3502-04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3505	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C3506	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C3507,08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3509,10	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C3514	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3515	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C3516,17	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C3550,51	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	2	
C3552	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3553	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C3554	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	1	
C3555	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C3556	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C3557	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C3558	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C3559,60	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3561	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C3562	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3563	ECUX1H681JCV	C.CAPACITOR CH 50V 680P	1	
C3564	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3565,66	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	2	
C3567,68	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3569	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C3570	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3571	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C3572	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3573	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3575	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3576,77	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	2	
C3578	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3579	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C3580	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3600	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3601	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3602,03	EEVHB0J101	E.CAPACITOR 6.3V 100U	2	
C3605	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C3606	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3607	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3630	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3631	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3632	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3633	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3634	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3638-47	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	10	
C3648	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3649	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3650	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3651-53	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3654	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3655	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3656	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3657	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3658,59	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3660	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3662	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3663	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C3664	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C3700	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3701	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3702	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3703	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3704	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3705	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C3706	ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3707,08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3712-21	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	10	
C3722	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3723,24	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3725	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3726	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3727	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3728	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3729,30	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3731	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3733	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3734	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C3735	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C3736	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3800	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3801	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3802	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3803	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3804	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3805	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C3806	ECUM1H680JCN	C.CAPACITOR CH 50V 68P	1	
C3807,08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3812-21	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	10	
C3822	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3823	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3824	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3825,26	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3827	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3828	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3829,30	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3831	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3833	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3834	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C3835	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C3836	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3903	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3905,06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3930	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C3931-41	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	11	
C3942	ECUX1H560JCV	C.CAPACITOR CH 50V 56P	1	
C3943	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3945	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3947	ECUX1H070DCV	C.CAPACITOR CH 50V 7P	1	
C3948,49	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C3950,51	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3954	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3980,81	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
D3102	MA142K	DIODE	1	
D3160	MA3J14300L	DIODE	1	
D3400	MA3J14300L	DIODE	1	
D3450	MA142K	DIODE	1	
D3501	MA142WK	DIODE	1	
D3550	MA142K	DIODE	1	
D3551	MA335-R	DIODE	1	
D3630	MA3J14300L	DIODE	1	
D3700	MA3J14300L	DIODE	1	
D3800	MA3J14300L	DIODE	1	
DL3500	VLD0264	COIL	1	G2A7R9C00001
FL3101	VLF1015	FILTER	1	
FL3631	VLF1353	FILTER	1	
FL3701	VLF1355	FILTER	1	
FL3801	VLF1355	FILTER	1	
IC3001,02	NJM78L09UA	IC	2	C0CBAHC00002
IC3005	XC62FP3302P	IC	1	
IC3007-10	AN77L05M	IC	4	
IC3011,12	XC62FP5002P	IC	2	
IC3013-17	XC62DN5002P	IC	5	
IC3018	C0CBAAB00021	IC	1	
IC3019	AN77L05M	IC	1	
IC3020	AN77L03M	IC	1	
IC3101	THC4053FT	IC	1	
IC3103	AN3296S	IC	1	
IC3104	SN74LS221NS	IC	1	
IC3160	NJM084M	IC	1	C0ABFB000008
IC3161	NJM082BM	IC	1	C0ABEB000017
IC3162	C0FBAF000042	IC	1	
IC3163	TVHT244F	IC	1	
IC3164	74AHC1G08DCK	IC	1	
IC3200	74AHC1G08DCK	IC	1	
IC3201	CXD2105AQ	IC	1	YWCXD2105AQ
IC3300,01	THC4053FT	IC	2	
IC3400,01	SN74LS221NS	IC	2	
IC3402	C0JBAB000196	IC	1	
IC3403	NJM084M	IC	1	C0ABFB000008
IC3404	NJM082BM	IC	1	C0ABEB000017
IC3405-07	TC4W53F	IC	3	C0JBAR000225
IC3450,51	NJM1496M	IC	2	C1CB00000435
IC3452	NJM319M	IC	1	C0BBBA000026
IC3502	AN91A12S	IC	1	
IC3550,51	SN74LS221NS	IC	2	
IC3552	TVHC00FT	IC	1	
IC3553	TC4S584F	IC	1	
IC3554	TVHC74FT	IC	1	
IC3555	NJM082BM	IC	1	C0ABEB000017
IC3556	TC4W53F	IC	1	C0JBAR000225
IC3557	NVHC244MTCX	IC	1	
IC3630	NJM082BM	IC	1	C0ABEB000017
IC3631	C0FBAF000042	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC3632	THC4053FT	IC	1	
IC3633	NJM084M	IC	1	C0ABFB000008
IC3700	NJM082BM	IC	1	C0ABEB000017
IC3701	C0FBAF000042	IC	1	
IC3702	THC4053FT	IC	1	
IC3703	NJM084M	IC	1	C0ABFB000008
IC3704	C0ZBZ0000569	IC	1	
IC3800	NJM082BM	IC	1	C0ABEB000017
IC3801	C0FBAF000042	IC	1	
IC3802	THC4053FT	IC	1	
IC3803	NJM084M	IC	1	C0ABFB000008
IC3804	C0ZBZ0000569	IC	1	
IC3900	M62370GP	IC	1	C0FBBD000082
IC3930	C1ZBZ0001836	IC	1	
IC3931,32	TVHT244F	IC	2	
IC3935	74AHC1G08DCK	IC	1	
IC3980	74LCX244MTCX	IC	1	
IC3981	NVHC244MTCX	IC	1	
ID0	VVVSI3573C	SOFTWARE	1	
IP3930	C1ZBZ0001555	IC	1	
L3001-03	VLF1151A132	COIL	3	
L3102-04	VLQ0319K101	COIL 100UH	3	G1C101K00022
L3160-65	VLQ0319K101	COIL 100UH	6	G1C101K00022
L3200	VLQ0319K101	COIL 100UH	1	G1C101K00022
L3300	VLQ0319K101	COIL 100UH	1	G1C101K00022
L3301	VLQ0163J180	COIL 18UH	1	G1C180J00001
L3302	VLQ0163J220	COIL 22UH	1	
L3303,04	VLQ0319K101	COIL 100UH	2	G1C101K00022
L3305	VLQ0163J180	COIL 18UH	1	G1C180J00001
L3306	VLQ0163J220	COIL 22UH	1	
L3307	VLQ0163J270	COIL 27UH	1	
L3308	VLQ0163J6R8	COIL 6.8UH	1	G1C6R8J00007
L3309	VLQ0163J5R6	COIL 5.6UH	1	
L3401,02	VLQ0319K101	COIL 100UH	2	G1C101K00022
L3450	VLQ0319K101	COIL 100UH	1	G1C101K00022
L3451	VLQ0163J560	COIL 56UH	1	
L3452,53	VLQ0319K101	COIL 100UH	2	G1C101K00022
L3454	VLQ0163J560	COIL 56UH	1	
L3455	VLQ0163J470	COIL 47UH	1	
L3500	VLQ0319K101	COIL 100UH	1	G1C101K00022
L3501	VLQ0133J391	COIL 390UH	1	
L3502	VLQ0319K101	COIL 100UH	1	G1C101K00022
L3550	VLQ0319K470	COIL 47UH	1	G1C470K00013
L3600,01	VLQ0319K101	COIL 100UH	2	G1C101K00022
L3630-34	VLQ0319K101	COIL 100UH	5	G1C101K00022
L3635	VLQ0133J821	COIL 820UH	1	
L3700-04	VLQ0319K101	COIL 100UH	5	G1C101K00022
L3705	VLQ0133J821	COIL 820UH	1	
L3800-04	VLQ0319K101	COIL 100UH	5	G1C101K00022
L3805	VLQ0133J821	COIL 820UH	1	
P3001	K1KA96B00032	CONNECTOR (MALE)	1	
P3002	VJP3125B008	CONNECTOR (MALE)	1	
Q3100	2SB709A	TRANSISTOR	1	
Q3101	2SD601A	TRANSISTOR	1	
Q3102	XN4501	TRANSISTOR-RESISTOR	1	
Q3160	2SD601A	TRANSISTOR	1	
Q3161	2SC3130	TRANSISTOR	1	
Q3162	2SB709A	TRANSISTOR	1	
Q3163-65	2SD601A	TRANSISTOR	3	
Q3166	2SK198-R	TRANSISTOR	1	2SK01980R
Q3300	2SD601A	TRANSISTOR	1	
Q3301	2SB709A	TRANSISTOR	1	
Q3302	2SD601A	TRANSISTOR	1	
Q3303	2SC3130	TRANSISTOR	1	
Q3304	2SD601A	TRANSISTOR	1	
Q3305	XN4601	TRANSISTOR-RESISTOR	1	
Q3306	2SD601A	TRANSISTOR	1	
Q3307	2SB709A	TRANSISTOR	1	
Q3308	2SD601A	TRANSISTOR	1	
Q3309	2SC3130	TRANSISTOR	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q3310	2SD601A	TRANSISTOR	1	
Q3311	XN4601	TRANSISTOR-RESISTOR	1	
Q3312	2SD601A	TRANSISTOR	1	
Q3313	2SB709A	TRANSISTOR	1	
Q3314	2SC3130	TRANSISTOR	1	
Q3315	2SD601A	TRANSISTOR	1	
Q3401,02	2SD601A	TRANSISTOR	2	
Q3450,51	2SD601A	TRANSISTOR	2	
Q3452	2SB709A	TRANSISTOR	1	
Q3453	2SD601A	TRANSISTOR	1	
Q3454	2SB709A	TRANSISTOR	1	
Q3455,56	2SD601A	TRANSISTOR	2	
Q3550	2SC3757-R	TRANSISTOR	1	
Q3551,52	2SA1226E34	TRANSISTOR	2	
Q3553	2SC3757-R	TRANSISTOR	1	
Q3554	2SC2295	TRANSISTOR	1	
Q3600	XN4601	TRANSISTOR-RESISTOR	1	
Q3602	XN4601	TRANSISTOR-RESISTOR	1	
Q3604	XN4601	TRANSISTOR-RESISTOR	1	
Q3630	2SD601A	TRANSISTOR	1	
Q3631,32	2SB709A	TRANSISTOR	2	
Q3633	2SD601A	TRANSISTOR	1	
Q3634	2SC3130	TRANSISTOR	1	
Q3635-37	2SD601A	TRANSISTOR	3	
Q3639	2SB709A	TRANSISTOR	1	
Q3640	2SK198-R	TRANSISTOR	1	2SK01980R
Q3700	2SD601A	TRANSISTOR	1	
Q3701	2SB709A	TRANSISTOR	1	
Q3703,04	2SD601A	TRANSISTOR	2	
Q3705	2SC3130	TRANSISTOR	1	
Q3706,07	2SD601A	TRANSISTOR	2	
Q3709	2SD601A	TRANSISTOR	1	
Q3711	2SB709A	TRANSISTOR	1	
Q3712	2SK198-R	TRANSISTOR	1	2SK01980R
Q3800	2SD601A	TRANSISTOR	1	
Q3801	2SB709A	TRANSISTOR	1	
Q3803,04	2SD601A	TRANSISTOR	2	
Q3805	2SC3130	TRANSISTOR	1	
Q3806,07	2SD601A	TRANSISTOR	2	
Q3809	2SD601A	TRANSISTOR	1	
Q3811	2SB709A	TRANSISTOR	1	
Q3812	2SK198-R	TRANSISTOR	1	2SK01980R
QR3300	UN2213	TRANSISTOR-RESISTOR	1	
R3103	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3104	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3105	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3106	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3107	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3113	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3114	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3115	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R3117	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R3118	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3119	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R3120	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3121	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3124	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R3125	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3127	ERJ3RBD331	M.RESISTOR CH 1/16W 330	1	
R3128	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3131	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	1	
R3134	ERJ3GEYJ753	M.RESISTOR CH 1/16W 75K	1	
R3137	ERJ3RBD153	M.RESISTOR CH 1/16W 15K	1	
R3138	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3141	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3142	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R3145	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R3146	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3149	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R3150	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R3153	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R3154	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3160	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3161	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R3162	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R3163	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3164	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3165	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3166	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3167	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R3170	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3173	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3174	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3175	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3176	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3177	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3178	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3179	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3181-83	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R3185	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3186,87	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R3188	ERJ3RBD132	M.RESISTOR CH 1/16W 1.3K	1	
R3189	ERJ3RBD133	M.RESISTOR CH 1/16W 13K	1	
R3190	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R3193	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R3196	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3197-99	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	3	
R3200	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3201	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3203	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3205	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3208	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3211,12	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3214	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3215,16	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R3217	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3218	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R3219	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R3220	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R3221	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3222	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R3223,24	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R3300	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3301	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3303	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3304	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3305	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3306	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3307	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3308	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3309	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3313	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3314	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R3315,16	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3317	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3318	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3319	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3320	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3321	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3322,23	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R3325	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3326	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3327	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3328	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3329	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3330	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3331	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3332	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3333	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3337	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	1	
R3338	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3339	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R3340	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3341	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3342	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3344	ERJ3GEYJ750	M.RESISTOR CH 1/16W 75	1	
R3345	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3346	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3347,48	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R3349	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R3350	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3351	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3352	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R3353	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3354	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3355	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R3356	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3357	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3358	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3359	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3360	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3361	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3363	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R3364,65	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3366	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3401	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3402	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3404	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3405	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3406	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3407	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3408	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3410	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R3411	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3412	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3413-15	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R3417	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R3418	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3419	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R3420,21	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3422	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3423	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R3425	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R3426	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3427	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3428-30	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R3432	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3433	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R3434	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3435	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3438	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3443-46	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R3449	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3450	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3451	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3452	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3453,54	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3455	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3456	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R3457,58	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	2	
R3459,60	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R3461	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3462	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3463	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3466	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3467	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3468	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3469	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3470,71	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3472	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3473	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R3474,75	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	2	
R3476,77	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	2	
R3478	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3479	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3480	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3483	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3484	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3485,86	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R3487	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3488	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3489	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3490	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3491	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3492	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3493	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3494	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3495	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3496	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3497	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R3502	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3506	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3508	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R3515	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R3516	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	1	
R3517-19	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R3541	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3547	ERJ3GEYJ684	M.RESISTOR CH 1/16W 680K	1	
R3550	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3551	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3552	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R3553	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3554	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3555,56	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R3557,58	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R3559	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R3561	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R3562	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R3563,64	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	2	
R3565	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3567	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3568	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R3569	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R3570	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3575,76	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R3577	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3578	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3580	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3581	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3582-86	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	5	
R3587	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3588	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R3589	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R3590	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R3591	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3592	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3600	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3601	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3602,03	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R3607	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R3609	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3610	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3611	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3612	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3613	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R3616	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3617	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3618	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3619	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3622	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3623	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R3630	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3631	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3632	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R3633	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3634	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3635	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3636	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3637	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3638	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3640	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3641	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3642	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3643	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3644	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R3649	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3651	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3652	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3653	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3654	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3655	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R3656	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R3657	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3658	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3659	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R3660	ERJ3RBD302	M.RESISTOR CH 1/16W 3K	1	
R3661	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R3662	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R3665	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R3666	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3668	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R3669	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3670	ERJ3RBD393	M.RESISTOR CH 1/16W 39K	1	
R3675	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R3676	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3677	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3678	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3679	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3680,81	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	2	
R3682	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3683	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3684	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3688	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3700	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3701	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R3702	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R3703	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3704-07	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R3712	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R3713	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3714	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3716	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3717	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3718	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3719	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R3723	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3726	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3727	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3728	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3729	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3730	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R3731	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R3732,33	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3734	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R3735	ERJ3RBD302	M.RESISTOR CH 1/16W 3K	1	
R3736	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R3737	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R3743	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R3744	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3746,47	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3750	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R3751	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3752	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3753	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3754	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3755	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3756	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3757	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3758	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3759	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3763	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R3800	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3801	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R3802	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R3803	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3804-07	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R3812	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R3813	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3814	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3816	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3817	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3818	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3819	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3823	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3826	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3827	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R3828	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3829	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3830	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R3831	ERJ3RBD101	M.RESISTOR CH 1/16W 100	1	
R3832,33	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3834	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R3835	ERJ3RBD302	M.RESISTOR CH 1/16W 3K	1	
R3836	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R3837	ERJ3RBD152	M.RESISTOR CH 1/16W 1.5K	1	
R3843	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R3844	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3846,47	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R3850	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R3851	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R3852	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3853	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3854	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3855	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3856	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3857	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3858	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R3859	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R3863	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R3864,65	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R3900	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3901	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3902	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3903	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3904	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3905	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3906	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3930	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3931	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3932,33	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3936,37	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3939	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R3940	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3941	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3942	EXBV8V102J	COMBI.R-R 1K	1	
R3943	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R3944	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R3945	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3946,47	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3948	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3950,51	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3953,54	D1H84704A008	COMBI.R-R	2	
R3955	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3958	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3980	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3981	EXBV8V330J	COMBI.R-R 33	1	
R3982,83	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R3984,85	EXBV8V330J	COMBI.R-R 33	2	
TG3160	EYF6CU	TEST POINT	1	
TG3400	EYF6CU	TEST POINT	1	
TG3450	EYF6CU	TEST POINT	1	
TG3550	EYF6CU	TEST POINT	1	
TG3630	EYF6CU	TEST POINT	1	
TG3700	EYF6CU	TEST POINT	1	
TG3800	EYF6CU	TEST POINT	1	
TG3930	EYF6CU	TEST POINT	1	
TP3160	EYF6CU	TEST POINT	1	
TP3400,01	EYF6CU	TEST POINT	2	
TP3450	EYF6CU	TEST POINT	1	
TP3550-52	EYF6CU	TEST POINT	3	
TP3630	EYF6CU	TEST POINT	1	
TP3700	EYF6CU	TEST POINT	1	
TP3800	EYF6CU	TEST POINT	1	
TP3930-33	EYF6CU	TEST POINT	4	
TP3980,81	EYF6CU	TEST POINT	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
VC3500	VCV0047	TRIMMER	1	
VR3401	EVMEASA00B53	V.RESISTOR 5K	1	
VR3402	EVMEASA00B13	V.RESISTOR 1K	1	
VR3403	EVMEASA00B53	V.RESISTOR 5K	1	
VR3404	EVMEASA00B13	V.RESISTOR 1K	1	
VR3550	EVMEASA00B23	V.RESISTOR 2K	1	
X3401	H1C1775A0002	CRYSTAL OSCILLATOR	1	
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E6	VEP86314B	F6 SYSCON P.C.BOARD0	1	(RTL)
C1-C6	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C7-10	EEVHB1C470	E.CAPACITOR 16V 47U	4	
C11,12	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C13-18	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C101	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C102,03	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	2	
C104-11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C151	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C152-55	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C156-60	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	5	
C161	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C212	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C251,52	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C253	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C254-56	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C258-63	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C264	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C301	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C302	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C303-08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C310	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C311	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C312	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	1	
C313-18	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C351,52	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C353-55	EEVHB1C470	E.CAPACITOR 16V 47U	3	
C356-58	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C401-04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C501-06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C507	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C508,09	ECUX1H100CCV	C.CAPACITOR CH 50V 10P	2	
C510-13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C553	VCK0152	C.CAPACITOR	1	F1L1C1060016
C559	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C560	ECUX1H050CCV	C.CAPACITOR CH 50V 5P	1	
C561	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C562	ECUX1H050CCV	C.CAPACITOR CH 50V 5P	1	
C563,64	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C565	VCK0152	C.CAPACITOR	1	F1L1C1060016
C566-68	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C569	VCK0152	C.CAPACITOR	1	F1L1C1060016
C570	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C573	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C575	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C576	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C577	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C578	ECUX1H821JCV	C.CAPACITOR CH 50V 820P	1	
C579	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C580	VCK0152	C.CAPACITOR	1	F1L1C1060016
C581,82	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C587,88	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C589	VCK0152	C.CAPACITOR	1	F1L1C1060016
C651-60	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	10	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C701-28	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	28	
D1	MA716	DIODE	1	
D252-56	MA716	DIODE	5	
D301	MA147	DIODE	1	
D302	MA716	DIODE	1	
D553,54	MA147	DIODE	2	
D701-09	MA716	DIODE	9	
IC1	XC62FP5002P	IC	1	
IC2	XC62DN5002P	IC	1	
IC3	NJM78L09UA	IC	1	C0CBAHC00002
IC4	NJM79L09UA	IC	1	C0CABBF00001
IC101	C2GBA0000021	IC	1	
IC102	TVHT541FT	IC	1	
IC103	TVHC32FT	IC	1	
IC104	M27C100115F1	IC	1	
IC104	VSI3558A	IC	1	
IC105	CY7C19920ZC	IC	1	
IC106	IDT71321L55F	IC	1	C3HBCC000002
IC107	NVHC138MTCX	IC	1	
IC108	TVHC00FT	IC	1	
IC151	Z84C4310FEC	IC	1	C2ZBZ0000312
IC152	TVHC161FT	IC	1	
IC153	ADM202JRN	IC	1	C0ZBZ0000171
IC156	SN75C1168NS	IC	1	
IC203	C0JBAB000196	IC	1	
IC251	TVHC32FT	IC	1	
IC252	TVHC74FT	IC	1	
IC253,54	T74HC191AF	IC	2	
IC255	TVHC574FT	IC	1	
IC256	TC74HC4094F	IC	1	C0JBAQ000104
IC257	TC74HC4050AF	IC	1	
IC258	TVHC574FT	IC	1	
IC259	TVHT574FT	IC	1	
IC260	74AHC1G08DCK	IC	1	
IC261	TVHC123FT	IC	1	
IC301	M37702S4AFP	IC	1	C2CBYF000003
IC302	M27C400110F1	IC	1	
IC302	VSI3562A	IC	1	
IC303	TVHC32FT	IC	1	
IC304	TVHC00FT	IC	1	
IC305	TVHC32FT	IC	1	
IC306	NVHC138MTCX	IC	1	
IC307	TVHC573FT	IC	1	
IC308	C0JBAB000196	IC	1	
IC309	TL7705CPSB	IC	1	C0EBS0000002
IC351	IDT71321L55F	IC	1	C3HBCC000002
IC352	CY7C19920ZC	IC	1	
IC353	STK12C68S45	IC	1	
IC354	NVHC245MTCX	IC	1	
IC401	IDT71321L55F	IC	1	C3HBCC000002
IC402,03	NVHC541MTCX	IC	2	
IC404	UPD6456T611Y	IC	1	C1AB00000555
IC501	M37702S4AFP	IC	1	C2CBYF000003
IC502	M27C200115F1	IC	1	
IC502	VSI3564B	IC	1	
IC503	CY7C19920ZC	IC	1	
IC504	TVHC573FT	IC	1	
IC505,06	NVHC138MTCX	IC	2	
IC507,08	TVHC32FT	IC	2	
IC509	TVHC00FT	IC	1	
IC551	MN51040VPI	IC	1	
IC552	TVHC32FT	IC	1	
IC553	TVHC574FT	IC	1	
IC554	TC4W53FU	IC	1	
IC555	C0ABBB000032	IC	1	
IC558	C0BBBA000044	IC	1	
IC559	C0ABBB000196	IC	1	
IC651	TVHC32FT	IC	1	
IC652	TVHC08FT	IC	1	
IC654,55	TVHC74FT	IC	2	
IC656	NVHC541MTCX	IC	1	
IC658	NVHC541MTCX	IC	1	
IC660	TLVX4245FS	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC661	NVHC541MTCX	IC	1	
IC663	NVHC245MTCX	IC	1	
IC701,02	NJM084V	IC	2	
IC703,04	NVHC541MTCX	IC	2	
IC705	TVHT541FT	IC	1	
IC706	TVHT574FT	IC	1	
IC707	TVHC574FT	IC	1	
IC708	TVHC14FT	IC	1	
IC709	TVHT04FT	IC	1	
IC710	TVHC126FT	IC	1	
IS104	VJS2336A032	CONNECTOR (FEMALE)	1	K3E032C00033
IS302	VJS2336A032	CONNECTOR (FEMALE)	1	K3E032C00033
IS502	VJS2336A032	CONNECTOR (FEMALE)	1	K3E032C00033
L1,L2	VLF1151A132	COIL	2	
L501	VLQ0163J470	COIL 47UH	1	
P1,P2	K1KA96B00032	CONNECTOR (MALE)	2	
QR301	UN5214	TRANSISTOR-RESISTOR	1	
R102-04	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
R105,06	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R107	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R110	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R112,13	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R117	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R151	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R153	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R154	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R156	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R161	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R162	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R163	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R164	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R165,66	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R167	D1H84734A008	COMBI.R-R	1	
R168,69	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R177	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R180	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R201,02	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R205	D1H84734A008	COMBI.R-R	1	
R251,52	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R253	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R254	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R255	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R256,57	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R258	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R259,60	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R266	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R268,69	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R271,72	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R273	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R274	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R301-04	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	4	
R305	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R306-08	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
R309	D1H84704A008	COMBI.R-R	1	
R310	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R311	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R312	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R313	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R314	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R315	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R316	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R317	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R318	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R319	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R351	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R401,02	D1H84704A008	COMBI.R-R	2	
R403	D1H84734A008	COMBI.R-R	1	
R404	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R405	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R406,07	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R408	D1H84704A008	COMBI.R-R	1	
R501	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R502	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R503	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R504	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R507	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R509,10	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R511	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R514	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R559	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R560	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R561	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R562	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R567	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R570	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R571	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R573	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R574,75	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R576	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R577	ERJ3GEYJ824	M.RESISTOR CH 1/16W 820K	1	
R578,79	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R580	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R581	D1H84734A008	COMBI.R-R	1	
R583,84	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R585	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R586,87	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	2	
R588	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R589	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R590	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R591	ERJ6RBD683	M.RESISTOR CH 1/10W 68K	1	
R592	ERJ6RBD123	M.RESISTOR CH 1/10W 12K	1	
R593	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R594	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R597,98	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R603	ERJ3GEYJ912	M.RESISTOR CH 1/16W 9.1K	1	
R610	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R611	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R612	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R614	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R651	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R653	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R654,55	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R656-59	D1H84734A008	COMBI.R-R	4	
R660-62	D1H84704A008	COMBI.R-R	3	
R664-67	D1H84704A008	COMBI.R-R	4	
R701-06	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	6	
R707-12	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	6	
R713	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R714	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R715-20	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	6	
R721	D1H84734A008	COMBI.R-R	1	
R722-27	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	6	
R728-30	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
R731-33	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R734,35	D1H84734A008	COMBI.R-R	2	
R736,37	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R738,39	D1H84734A008	COMBI.R-R	2	
R740,41	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R742-44	D1H84704A008	COMBI.R-R	3	
SW301	VSS0367-02B	SWITCH	1	
TG301	EYF6CU	TEST POINT	1	
TG501	EYF6CU	TEST POINT	1	
X101	VSX0641	CRYSTAL OSCILLATOR	1	
X301	VSX0641	CRYSTAL OSCILLATOR	1	
X501	VSX0654	CRYSTAL OSCILLATOR	1	H0J1605000017
X551	VSX1001	CRYSTAL OSCILLATOR	1	H2C143500002
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■E7	VEP82238B	F7 SERVO P.C.BOARD0	1	(RTL)
C1	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C2	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C4	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C6,C7	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C8,C9	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	2	
C10,11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C12	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C13,14	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C15,16	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	2	
C17	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C18	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C19	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C20,21	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C22-26	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C27	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C60	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C61-64	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C69	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C70-73	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	4	
C74-76	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C150,51	ECUX1C224ZFV	C.CAPACITOR CH 16V 0.22U	2	
C152,53	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C154	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C155	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	1	
C156,57	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C158,59	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C160	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	1	
C163	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C165,66	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	2	
C167-71	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C201	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C202,03	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	2	
C204-07	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C208,09	ECUX1A105ZFV	C.CAPACITOR CH 10V 1U	2	
C210-14	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C215,16	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C217,18	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C219,20	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	2	
C221-28	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C301-05	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C350	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C351,52	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C353	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C354,55	ECUX1H272KBV	C.CAPACITOR CH 50V 2700P	2	
C356-60	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C361,62	ECUX1H153KBV	C.CAPACITOR CH 50V 0.015U	2	
C364-66	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C401,02	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	2	
C403,04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C405,06	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C407,08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C409,10	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C411	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C412-24	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	13	
C425	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C426,27	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C428	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C429,30	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C431	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C432	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C450	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C451	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C452	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C453	EEUFC1V101	E.CAPACITOR 35V 100U	1	
C454,55	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	2	
C456,57	EEUFC1V101	E.CAPACITOR 35V 100U	2	
C458,59	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C500	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C501	EEUFC1V101	E.CAPACITOR 35V 100U	1	
C502,03	ECUX1H682KBV	C.CAPACITOR CH 50V 6800P	2	
C504	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C505,06	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C507,08	EEUFC1V101	E.CAPACITOR 35V 100U	2	
C509-11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C512	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C513	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C514	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C515	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C516	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C517-19	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C550,51	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	2	
C552-54	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C555	ECUX1H153KBV	C.CAPACITOR CH 50V 0.015U	1	
C556	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C557	ECUX1H153KBV	C.CAPACITOR CH 50V 0.015U	1	
C558,59	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	2	
C560	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C561	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C562	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C563	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C564	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C565	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C566	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	1	
C567	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C568	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C569	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C570	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C571	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C572	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C573	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	1	
C574	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C575	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	1	
C576,77	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	2	
C578,79	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C580,81	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	2	
C582	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C583	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	1	
C584	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C585	ECUX1E225ZFM	C.CAPACITOR CH 25V 2.2U	1	
C586,87	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C588,89	ECUM1E473KBN	C.CAPACITOR CH 25V 0.047U	2	
C590,91	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C592,93	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C594,95	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C596,97	ECUM1C474KBM	C.CAPACITOR CH 16V 0.47U	2	
C598,99	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C600,01	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C602,03	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C604,05	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C606-09	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	4	
C610-13	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C614,15	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C616,17	EEVHB1C100	E.CAPACITOR 16V 10U	2	
C618-23	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	6	
C651-54	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C657,58	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	2	
C659	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C660	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C661	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C662	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C663-66	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C667	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C668	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C669-71	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
D1-D4	MA8075-H	DIODE	4	
D5,D6	MA142K	DIODE	2	
D7-D9	MA147	DIODE	3	
D201-03	MA147	DIODE	3	
D350-52	LN1251CAL	DIODE	3	
D353,54	MA147	DIODE	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D355,56	MA142K	DIODE	2	
D401,02	MA142K	DIODE	2	
D403-06	MA716	DIODE	4	
D407	MA147	DIODE	1	
D450,51	MA728	DIODE	2	
D452,53	MA736	DIODE	2	
D500,01	MA728	DIODE	2	
D502,03	MA736	DIODE	2	
D504	MA142K	DIODE	1	
D550,51	MA142K	DIODE	2	
D552-63	MA738	DIODE	12	
D564,65	MA147	DIODE	2	
D605,06	MA738	DIODE	2	
D609-12	MA738	DIODE	4	
D651	MA142K	DIODE	1	
D652-55	MA142WK	DIODE	4	
D656	MA147	DIODE	1	
D657	MA142WK	DIODE	1	
D658	MA142WA	DIODE	1	
D659	MA8051-M	DIODE	1	
D660	MA8082-H	DIODE	1	
D661	MA142WK	DIODE	1	
D662	MA142K	DIODE	1	
D663	MAZ80330HL	DIODE	1	
D664	MA8039-H	DIODE	1	
D665	MA8075-M	DIODE	1	
D666	MA738	DIODE	1	
D667	MA142K	DIODE	1	
D668-70	MA738	DIODE	3	
IC1	TVHC14FT	IC	1	
IC2	NJM4558M	IC	1	C0ABBB000044
IC3	TC4052BFN	IC	1	
IC5	NJM4558M	IC	1	C0ABBB000044
IC7	NJM4558M	IC	1	C0ABBB000044
IC8	TC4052BFN	IC	1	
IC61,62	C0ABBB000184	IC	2	
IC63	NJM2901M	IC	1	C0BBCA000008
IC103	TVHC14FT	IC	1	
IC151	NJM4558M	IC	1	C0ABBB000044
IC152	C0ABBB000184	IC	1	
IC153	NJM2903M	IC	1	C0BBBA000019
IC154	TVHC14FT	IC	1	
IC155	NJM4558M	IC	1	C0ABBB000044
IC156	NJM2903M	IC	1	C0BBBA000019
IC157	C0ABBB000184	IC	1	
IC202,03	S80829ANUP	IC	2	
IC204	T74VHCU04F	IC	1	
IC206,07	T74VHC541F	IC	2	
IC301	T74VHC541F	IC	1	
IC351,52	TVHT541FT	IC	2	
IC353	74LCX245SJX	IC	1	
IC354	M62370GP	IC	1	C0FBBD000082
IC355,56	NJM4558M	IC	2	C0ABBB000044
IC357	NJM2904V	IC	1	
IC401	NJM2904V	IC	1	
IC402,03	NJM78L09UA	IC	2	C0CBAHC00002
IC404	XC62FP3302P	IC	1	
IC405	XC62FP5002P	IC	1	
IC406,07	NJM79L09UA	IC	2	C0CABBF00001
IC408	XC62DN5002P	IC	1	
IC501	NJM2903M	IC	1	C0BBBA000019
IC502	C0ABBB000184	IC	1	
IC503	TL1451CNS	IC	1	C0DBAMA00001
IC551	NJM2903M	IC	1	C0BBBA000019
IC552	NJM4558M	IC	1	C0ABBB000044
IC553,54	AN3834K	IC	2	
IC555	NJM4558M	IC	1	C0ABBB000044
IC600,01	AN3890FBS	IC	2	
IC650	TVHT541FT	IC	1	
IC651	C0JBAM000059	IC	1	
IC652	NJM2904V	IC	1	
IC653	TVHC123FT	IC	1	
IC654	TVHT541FT	IC	1	
IC655,56	BA6238AN	IC	2	C0GAK0000007

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC658	NJM2903M	IC	1	C0BBBA000019
ID0	VVVSI3567	SOFTWARE	1	
ID201	VVVSI3566	SOFTWARE	1	
IP201	MN1030F04K	IC	1	
IP300	EPM3256A1410	IC	1	
L401,02	VLF1151A132	COIL	2	
L450	VLQ0407120M	COIL 12UH	1	G0A120HA0007
L451,52	VLQ0504331K	COIL 330UH	2	G0A331F00001
L500,01	VLQ0504331K	COIL 330UH	2	G0A331F00001
P202	VJS3791B020	CONNECTOR (FEMALE)	1	
P300	VJP3125B008	CONNECTOR (MALE)	1	
P700,01	K1KA96B00032	CONNECTOR (MALE)	2	
Q1	2SD601A	TRANSISTOR	1	
Q2,Q3	2SB709A	TRANSISTOR	2	
Q4	2SD601A	TRANSISTOR	1	
Q5	2SB709A	TRANSISTOR	1	
Q6	2SD601A	TRANSISTOR	1	
Q401,02	2SD601A	TRANSISTOR	2	
Q450,51	2SB1073	TRANSISTOR	2	
Q500,01	2SB1174-Q	TRANSISTOR	2	2SB11740Q
Q600	2SB1073	TRANSISTOR	1	
Q601	2SD1119	TRANSISTOR	1	
Q602	2SB1073	TRANSISTOR	1	
Q603	2SD1119	TRANSISTOR	1	
Q604	PU3210	TRANSISTOR	1	PUA3210
Q605	PU3110	TRANSISTOR	1	PUA3110
Q606	2SB1073	TRANSISTOR	1	
Q607	2SD1119	TRANSISTOR	1	
Q650	2SD601A	TRANSISTOR	1	
Q651	2SB710A	TRANSISTOR	1	
Q652	2SB936A-Q	TRANSISTOR	1	
Q653,54	2SB766	TRANSISTOR	2	
QR1-R5	UN5213	TRANSISTOR-RESISTOR	5	
QR6	UN5113	TRANSISTOR-RESISTOR	1	
QR7	UN5215	TRANSISTOR-RESISTOR	1	
QR8	UN5115	TRANSISTOR-RESISTOR	1	
QR350-52	UN5213	TRANSISTOR-RESISTOR	3	
QR500,01	UN5111	TRANSISTOR-RESISTOR	2	
QR550-53	UN5215	TRANSISTOR-RESISTOR	4	
QR600	UN5213	TRANSISTOR-RESISTOR	1	
QR601	UN5217	TRANSISTOR-RESISTOR	1	
QR602	UN5211	TRANSISTOR-RESISTOR	1	
QR651	UN5213	TRANSISTOR-RESISTOR	1	
QR652	UN5113	TRANSISTOR-RESISTOR	1	
QR653,54	UN5213	TRANSISTOR-RESISTOR	2	
QR655,56	UN5214	TRANSISTOR-RESISTOR	2	
QR657	UN5213	TRANSISTOR-RESISTOR	1	
QR658	UN5113	TRANSISTOR-RESISTOR	1	
QR659-63	UN5214	TRANSISTOR-RESISTOR	5	
R1	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R2	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R3	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R5	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R6	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	1	
R7	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R8	ERJ3GEYJ512	M.RESISTOR CH 1/16W 5.1K	1	
R9	ERJ3GEYJ912	M.RESISTOR CH 1/16W 9.1K	1	
R10	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R11	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R12	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R13	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R14	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	1	
R15	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R16	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R17	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R18	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R19	ERJ3GEYJ303	M.RESISTOR CH 1/16W 30K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R20	ERJ6GEYG272	M.RESISTOR CH 1/10W 2.7K	1	
R21	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R22	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R23	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	1	
R24,25	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R26	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R27	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R28	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R29,30	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R31	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R32	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R33	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R34-36	ERJ3RBD471	M.RESISTOR CH 1/16W 470	3	
R37	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R38,39	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	2	
R40,41	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R42	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R43	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R44,45	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	2	
R46	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R47	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R48	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R49	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R50	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R60	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R61	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R62	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R63	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R64	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R65	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R66	ERJ3RBD912	M.RESISTOR CH 1/16W 9.1K	1	
R67	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R68	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R69	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R70	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R71	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R72	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R73	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R74	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R75	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R76-79	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	4	
R80,81	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	2	
R82-85	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	4	
R86-89	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	4	
R90-93	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	4	
R94-97	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	4	
R98	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R99	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R100,01	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R102,03	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R104	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R105	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R106-09	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	4	
R150	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R151	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R152	ERJ3GEYJ564	M.RESISTOR CH 1/16W 560K	1	
R153	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R154,55	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	2	
R156	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R157	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R158	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R159	ERJ3GEYJ823	M.RESISTOR CH 1/16W 82K	1	
R160,61	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	2	
R162	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R163	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R164,65	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	2	
R166	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R167	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R168,69	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	2	
R170	ERJ3GEYJ154	M.RESISTOR CH 1/16W 150K	1	
R171	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R172	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R173	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R174,75	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	2	
R176,77	ERJ3GEYJ274	M.RESISTOR CH 1/16W 270K	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R178,79	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	2	
R180,81	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	2	
R182,83	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R184,85	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	2	
R186,87	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	2	
R188,89	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R190,91	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	2	
R192,93	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	2	
R194,95	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R201,02	D1H84704A008	COMBI.R-R	2	
R203	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R204	D1H84734A008	COMBI.R-R	1	
R206	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R207	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	1	
R209,10	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R211	D1H810140001	COMBI.R-R	1	
R212	ERJ3GEYJ120	M.RESISTOR CH 1/16W 12	1	
R213	D1H84734A008	COMBI.R-R	1	
R214,15	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R216	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R218	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R219	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R220	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R221	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R222	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R223	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R224-27	D1H84704A008	COMBI.R-R	4	
R228	D1H84734A008	COMBI.R-R	1	
R229	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R230	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R233-35	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	3	
R236-38	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R301	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R302	EXBV8V102J	COMBI.R-R 1K	1	
R303	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R305,06	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R307	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R308	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R309,10	D1H84704A008	COMBI.R-R	2	
R311	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R351-53	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	3	
R354-59	D1H84704A008	COMBI.R-R	6	
R360-62	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	3	
R363	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R364,65	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	2	
R366,67	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R368,69	ERJ6RBD332	M.RESISTOR CH 1/10W 3.3K	2	
R370,71	ERJ3RBD104	M.RESISTOR CH 1/16W 100K	2	
R372	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R373	ERJ6RBD104	M.RESISTOR CH 1/10W 100K	1	
R374,75	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	2	
R376	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R377	ERJ3RBD563	M.RESISTOR CH 1/16W 56K	1	
R378-80	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R381	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R382	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R383	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R384	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R385	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R386	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R401,02	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R403	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R404	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R405,06	ERJ6RBD391	M.RESISTOR CH 1/10W 390	2	
R407	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R408-11	ERJ6RBD391	M.RESISTOR CH 1/10W 390	4	
R412,13	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R450,51	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	2	
R452,53	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R454,55	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	2	
R457	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
R500,01	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	2	
R502,03	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	2	
R504,05	ERJ12YJ471	M.RESISTOR CH 1/2W 470	2	
R506	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R507	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R508	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R509	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R510	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R511	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R512	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R513	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R514,15	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R516	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R517	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R518	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R519,20	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R521	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R522	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R523	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R524,25	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R526,27	ERJ6GEYG122	M.RESISTOR CH 1/10W 1.2K	2	
R528	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R529	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R530	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R531,32	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R533	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R535	ERJ8GEY0R00	M.RESISTOR CH 1/8W 0	1	
R551-53	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	3	
R554	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R555	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R556	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R557	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R558,59	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	2	
R560	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R561	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R562,63	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R564	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R565	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R566,67	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	2	
R568	ERJ12YJ2R2	M.RESISTOR CH 1/2W 2.2	1	
R569	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R570	ERJ12YJ2R2	M.RESISTOR CH 1/2W 2.2	1	
R571	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R572,73	ERJ12YJ2R2	M.RESISTOR CH 1/2W 2.2	2	
R574,75	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	2	
R576	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R577	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R578	ERJ3GEYJ393	M.RESISTOR CH 1/16W 39K	1	
R579	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R580-83	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	4	
R584,85	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	2	
R586,87	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R588,89	ERJ3GEYJ271	M.RESISTOR CH 1/16W 270	2	
R600	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R601,02	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R603	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R605,06	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R607,08	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	2	
R609,10	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	2	
R611,12	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R613-18	ERJ8GEYJ1R0	M.RESISTOR CH 1/8W 1	6	
R619	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R651-53	D1H84734A008	COMBI.R-R	3	
R654	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R655	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R656	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R657-60	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	4	
R661	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R662	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R663	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R664	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R666	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R667	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R668	ERJ3GEYJ563	M.RESISTOR CH 1/16W 56K	1	
R669,70	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R671-74	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	
R675	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R676,77	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R678	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R679,80	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R681-83	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R684	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R685	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R686	ERJ8GEYJ681	M.RESISTOR CH 1/8W 680	1	
R687	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R688	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	1	
R689,90	ERJ8GEYJ681	M.RESISTOR CH 1/8W 680	2	
R691,92	ERJ8GEYJ181	M.RESISTOR CH 1/8W 180	2	
R693	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R694	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R695	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R696	ERJ8GEYJ102	M.RESISTOR CH 1/8W 1K	1	
R697	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R698	ERJ8GEYJ102	M.RESISTOR CH 1/8W 1K	1	
TG1,G2	EYF6CU	TEST POINT	2	
TG4	EYF6CU	TEST POINT	1	
TP1	EYF6CU	TEST POINT	1	
TP30,31	EYF6CU	TEST POINT	2	
TP80-83	EYF6CU	TEST POINT	4	
TP120-23	EYF6CU	TEST POINT	4	
TP160-63	EYF6CU	TEST POINT	4	
TP201	EYF6CU	TEST POINT	1	
TP230-33	EYF6CU	TEST POINT	4	
TP280-82	EYF6CU	TEST POINT	3	
TP300-02	EYF6CU	TEST POINT	3	
TP305	EYF6CU	TEST POINT	1	
TP320	EYF6CU	TEST POINT	1	
TP400,01	EYF6CU	TEST POINT	2	
TP450,51	EYF6CU	TEST POINT	2	
TP651,52	EYF6CU	TEST POINT	2	
X201	VSX0918	CRYSTAL OSCILLATOR	1	H0J250500005
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
■ E8	VEP85196A	F8 RF EQ P.C.BOARD0	1	(RTL)
C5001-04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C5021-30	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	10	
C5051-55	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C5101,02	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5103,04	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	2	
C5105,06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5107,08	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5109	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C5111-13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5114	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C5115-17	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5118,19	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5120	ECUX1H270JCV	C.CAPACITOR CH 50V 27P	1	
C5121,22	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5123,24	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5125,26	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5127	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C5129	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5130	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5131	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C5133	ECUX1C683KBV	C.CAPACITOR CH 16V 0.068U	1	
C5134-37	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C5138	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5139,40	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	2	
C5141	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C5142	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C5143	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C5145,46	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5147,48	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5149,50	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5151	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5152-54	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5155	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5156	ECUX1H122KBV	C.CAPACITOR CH 50V 1200P	1	
C5157	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	1	
C5158	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5160,61	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5162,63	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	2	
C5201,02	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5203	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5204	ECUX1H271JCV	C.CAPACITOR CH 50V 270P	1	
C5205	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C5206	ECUX1H331JCV	C.CAPACITOR CH 50V 330P	1	
C5207	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5208	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	1	
C5209,10	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	2	
C5211,12	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5213,14	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5215-17	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5218	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C5219,20	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5301	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5302	ECUM1C224KBN	C.CAPACITOR CH 16V 0.22U	1	
C5303	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5304-11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C5312	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C5313	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C5315	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5316	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C5317-19	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5320	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C5321,22	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5324	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5325	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C5326-41	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	16	
C5351-59	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	9	
C5401,02	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5403,04	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	2	
C5405,06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5407,08	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5409	ECUX1H680JCV	C.CAPACITOR CH 50V 68P	1	
C5411-13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5414	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C5415-17	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5418,19	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5420	ECUX1H100DCV	C.CAPACITOR CH 50V 10P	1	
C5421,22	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5423,24	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5425,26	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5427	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C5429	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5430	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5431	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C5433	ECUX1C683KBV	C.CAPACITOR CH 16V 0.068U	1	
C5434-37	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C5438	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5439,40	ECUX1H820JCV	C.CAPACITOR CH 50V 82P	2	
C5441	ECUX1H471JCV	C.CAPACITOR CH 50V 470P	1	
C5442	ECUX1H470JCV	C.CAPACITOR CH 50V 47P	1	
C5443	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5445,46	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5447,48	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5449,50	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5451	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5452-54	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5455	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5456	ECUX1H122KBV	C.CAPACITOR CH 50V 1200P	1	
C5457	ECUX1H332KBV	C.CAPACITOR CH 50V 3300P	1	
C5458	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C5460,61	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5462,63	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	2	
C5601	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C5602	ECUM1C224KBN	C.CAPACITOR CH 16V 0.22U	1	
C5603	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C5604-11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C5612	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C5613	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C5615	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5616	ECUX1A105KBN	C.CAPACITOR CH 10V 1U	1	
C5617-19	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5620	ECUX1H152KBV	C.CAPACITOR CH 50V 1500P	1	
C5621	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5624	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5625	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C5626-41	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	16	
C5702-05	EEVHB1C470	E.CAPACITOR 16V 47U	4	
C5707-10	EEVHB1C470	E.CAPACITOR 16V 47U	4	
C5712	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C5713-15	EEVHB0J470	E.CAPACITOR 6.3V 47U	3	
C5717	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C5721-46	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	26	
D5051	MA142K	DIODE	1	
D5701,02	MA701A	DIODE	2	
D5703-05	MA716	DIODE	3	
IC5001	DS90LV048A	IC	1	
IC5002	74LCX74MTCX	IC	1	
IC5003	74LCX244MTCX	IC	1	
IC5004	DS90LV047A	IC	1	
IC5005	M62370GP	IC	1	C0FBBD000082
IC5006-08	THC4053FT	IC	3	
IC5009	NJM084V	IC	1	
IC5010	NJM082BV	IC	1	
IC5011	TC4S30F	IC	1	C0JBAZ000429
IC5012	74AHC1G32DCK	IC	1	
IC5013	74AHC1G00DCK	IC	1	
IC5014	TC7W125FU	IC	1	
IC5101	MC1495D	IC	1	
IC5102-04	UPC1663G	IC	3	C1CB00000329
IC5105	MN673796	IC	1	
IC5106	NJM082BV	IC	1	
IC5107	DS90LV047A	IC	1	
IC5108	74LCX574MTCX	IC	1	
IC5110	UPD65946GY00	IC	1	
IC5201,02	TC4S30F	IC	2	C0JBAZ000429
IC5203	NJM1496V	IC	1	
IC5204	NJM082BV	IC	1	
IC5401	MC1495D	IC	1	
IC5402-04	UPC1663G	IC	3	C1CB00000329
IC5405	MN673796	IC	1	
IC5406	NJM082BV	IC	1	
IC5408	74LCX574MTCX	IC	1	
IC5701-03	XC62FP5002P	IC	3	
IC5704-06	XC62DN5002P	IC	3	
IC5707-09	XC62FP3002P	IC	3	
L5101	VLQ0163MR27	COIL 0.27UH	1	
L5102	VLQ0163JR47	COIL 0.47UH	1	G1CR47J00004
L5103,04	VLQ0163J101	COIL 100UH	2	
L5105,06	VLQ0163JR22	COIL 0.22UH	2	G1CR22J00002
L5107	VLQ0163J6R8	COIL 6.8UH	1	G1C6R8J00007
L5201,02	VLQ0163J4R7	COIL 4.7UH	2	G1C4R7J00004
L5203,04	VLQ0163JR47	COIL 0.47UH	2	G1CR47J00004
L5401	VLQ0163MR27	COIL 0.27UH	1	
L5402	VLQ0163JR47	COIL 0.47UH	1	G1CR47J00004
L5403,04	VLQ0163J101	COIL 100UH	2	
L5405,06	VLQ0163JR22	COIL 0.22UH	2	G1CR22J00002
L5407	VLQ0163J6R8	COIL 6.8UH	1	G1C6R8J00007
L5701-04	VLF1151A132	COIL	4	
P5001	K1KA96B00032	CONNECTOR (MALE)	1	
Q5101	XN5531	TRANSISTOR-RESISTOR	1	
Q5102,03	2SD1979	TRANSISTOR	2	
Q5104,05	XN5531	TRANSISTOR-RESISTOR	2	
Q5106,07	2SK508K512	TRANSISTOR	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q5108-10	2SC3930	TRANSISTOR	3	
Q5111	XN5531	TRANSISTOR-RESISTOR	1	
Q5112-15	2SC3930	TRANSISTOR	4	
Q5201	XN5531	TRANSISTOR-RESISTOR	1	
Q5202,03	2SD1979	TRANSISTOR	2	
Q5204	2SC3935	TRANSISTOR	1	
Q5205	2SC3930	TRANSISTOR	1	
Q5301,02	2SA1532	TRANSISTOR	2	
Q5303	2SC3930	TRANSISTOR	1	
Q5401	XN5531	TRANSISTOR-RESISTOR	1	
Q5402,03	2SD1979	TRANSISTOR	2	
Q5404,05	XN5531	TRANSISTOR-RESISTOR	2	
Q5406,07	2SK508K512	TRANSISTOR	2	
Q5408-10	2SC3930	TRANSISTOR	3	
Q5411	XN5531	TRANSISTOR-RESISTOR	1	
Q5412-15	2SC3930	TRANSISTOR	4	
Q5601,02	2SA1532	TRANSISTOR	2	
Q5603	2SC3930	TRANSISTOR	1	
QR5051	UN5211	TRANSISTOR-RESISTOR	1	
QR5052	UN5111	TRANSISTOR-RESISTOR	1	
QR5201	UN5111	TRANSISTOR-RESISTOR	1	
R5001,02	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R5003-05	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R5006,07	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R5008	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5009	D1H84704A008	COMBI.R-R	1	
R5021,22	D1H84734A008	COMBI.R-R	2	
R5023,24	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5025	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	1	
R5026	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	1	
R5027,28	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	2	
R5029-31	ERJ3GEYJ223	M.RESISTOR CH 1/16W 22K	3	
R5032-35	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	
R5036	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5037	D1H810140001	COMBI.R-R	1	
R5038	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5039,40	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5041-43	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	3	
R5044	D1H810140001	COMBI.R-R	1	
R5051	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5052	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R5053	D1H84734A008	COMBI.R-R	1	
R5054,55	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R5101	D1H84704A008	COMBI.R-R	1	
R5102,03	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5104,05	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5106,07	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5108	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5109,10	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R5111,12	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5113,14	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5115,16	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5117,18	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R5119,20	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5121	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R5122	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R5123	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R5124	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5125	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R5126	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R5127	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R5128,29	ERJ3RBD151	M.RESISTOR CH 1/16W 150	2	
R5130,31	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5132,33	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5135,36	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R5137,38	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5139,40	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5141,42	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5143,44	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R5145	ERJ3RBD121	M.RESISTOR CH 1/16W 120	1	
R5146	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R5147	ERJ3RBD121	M.RESISTOR CH 1/16W 120	1	
R5148	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5149	ERJ3RBD121	M.RESISTOR CH 1/16W 120	1	
R5150,51	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R5152	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5153	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R5154	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5155	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5156	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5157	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R5158-60	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R5161	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5162,63	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5164,65	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5166	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5167,68	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R5169,70	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5171,72	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5173,74	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5175,76	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R5177	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5178	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R5179	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5180	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5181	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R5182	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5183,84	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5185	ERJ6GEYG391	M.RESISTOR CH 1/10W 390	1	
R5186,87	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5188	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5189,90	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5191,92	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5193	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5194,95	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5196	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5197	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5198	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5201,02	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5203,04	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5205,06	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5207,08	ERJ3RBD101	M.RESISTOR CH 1/16W 100	2	
R5209	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5210,11	ERJ3RED470	M.RESISTOR CH 1/16W 47	2	
R5212	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5213	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5214,15	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R5216,17	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5218	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5219	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5220	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R5221	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5222	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R5223-26	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	4	
R5227	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R5228	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5229	D1H84704A008	COMBI.R-R	1	
R5230	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R5231	ERJ3RBD681	M.RESISTOR CH 1/16W 680	1	
R5232	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
R5233	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R5234	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R5235	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R5236	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5301,02	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5303	D1H84734A008	COMBI.R-R	1	
R5304,05	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R5309,10	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R5312	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5313	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R5314	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5315,16	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R5317	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R5318	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R5319	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5320	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R5321	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R5322	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5323	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5324	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5325	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R5326	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R5327	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5328	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R5329	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5330	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R5331	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R5332	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R5333	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5334	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R5335	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R5336	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R5337,38	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R5339	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5340-43	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	4	
R5344-47	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R5357	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5358	D1H84704A008	COMBI.R-R	1	
R5359-62	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R5363	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5364	ERJ3RBD753	M.RESISTOR CH 1/16W 75K	1	
R5365	ERJ3RBD393	M.RESISTOR CH 1/16W 39K	1	
R5366	ERJ3RBD203	M.RESISTOR CH 1/16W 20K	1	
R5367	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5368	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R5369	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R5370	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R5371	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	
R5372	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5373	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5381-90	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	10	
R5393	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5397	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5401	D1H84704A008	COMBI.R-R	1	
R5402,03	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5404,05	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5406,07	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5408	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5409,10	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R5411,12	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5413,14	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5415,16	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5417,18	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R5419,20	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5421	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	
R5422	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R5423	ERJ3RBD272	M.RESISTOR CH 1/16W 2.7K	1	
R5424	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5425	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R5426	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R5427	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R5428,29	ERJ3RBD151	M.RESISTOR CH 1/16W 150	2	
R5430,31	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5432,33	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5435,36	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R5437,38	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5439,40	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5441,42	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5443,44	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	2	
R5445	ERJ3RBD121	M.RESISTOR CH 1/16W 120	1	
R5446	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R5447	ERJ3RBD121	M.RESISTOR CH 1/16W 120	1	
R5448	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R5449	ERJ3RBD121	M.RESISTOR CH 1/16W 120	1	
R5450,51	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R5452	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5453	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R5454	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5455	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5456	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5457	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R5458-60	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	3	
R5461	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5462,63	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5464,65	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5466	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5467,68	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	2	
R5469,70	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5471,72	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5473,74	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5475,76	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R5477	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5478	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R5479	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5480	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5481	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R5482	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5483,84	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5485	ERJ6GEYG391	M.RESISTOR CH 1/10W 390	1	
R5486,87	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5488	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5489,90	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5491,92	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5493	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5494,95	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R5496	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5497	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5498	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5609,10	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R5612	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5613	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R5614	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5615,16	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	2	
R5617	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R5618	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R5619	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5620	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R5621	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R5622	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5623	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5624	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5625	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R5626	ERJ3RED680	M.RESISTOR CH 1/16W 68	1	
R5627	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5628	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R5629	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5630	ERJ3GEYJ391	M.RESISTOR CH 1/16W 390	1	
R5631	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R5632	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R5633	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5634	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1	
R5635	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R5636	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R5637,38	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	2	
R5639	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5641,42	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5644,45	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R5657,58	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5659,60	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R5663	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5664	ERJ3RBD753	M.RESISTOR CH 1/16W 75K	1	
R5665	ERJ3RBD393	M.RESISTOR CH 1/16W 39K	1	
R5666	ERJ3RBD203	M.RESISTOR CH 1/16W 20K	1	
R5667	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5668	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R5669	ERJ3RBD242	M.RESISTOR CH 1/16W 2.4K	1	
R5670	ERJ3RBD122	M.RESISTOR CH 1/16W 1.2K	1	
R5671	ERJ3RBD561	M.RESISTOR CH 1/16W 560	1	
R5672	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R5673	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5674,75	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R5676	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5701-05	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	5	
R5706	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5711-14	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	4	
R5715-19	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	5	
R5720-27	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	8	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
RY5051	VSY2176	RELAY	1	K6B2CDA00045
TG5001-04	EYF6CU	TEST POINT	4	
TP5001-03	EYF6CU	TEST POINT	3	
TP5005-10	EYF6CU	TEST POINT	6	
TP5015,16	EYF6CU	TEST POINT	2	
TP5018-20	EYF6CU	TEST POINT	3	
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
	VML2144	CARD PULLER	1	
	VSC4609	SHIELD CASE	2	
	VWZ0212	THERMAL CONDUCTIVE TUBE	2	
	XYN3+F8	SCREW	2	
	VMP6465	HEAT SINK HOLDER ANGLE B	1	
■ E9	VEP85197A	RF CUE P.C.BOARD0	1	(RTL)
C4002	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4004	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C4006	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4008	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4010,11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4012	ECUM1H273KBN	C.CAPACITOR CH 50V 0.027U	1	
C4013	ECHU1C822JB	P.CAPACITOR 16V 8200P	1	
C4014	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4015,16	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C4018	ECUX1E223KBV	C.CAPACITOR CH 25V 0.023U	1	
C4020	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4021,22	EEVHB1C220	E.CAPACITOR 16V 22U	2	
C4024	EEVHP1C100	E.CAPACITOR 16V 10U	1	
C4025	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C4026	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4028	VCC0030	C.CAPACITOR	1	
C4030,31	ECHS1682JZ	P.CAPACITOR 100V 6800P	2	
C4034-36	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C4037	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4038	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C4039	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C4040	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C4041	ECUX1E223KBV	C.CAPACITOR CH 25V 0.023U	1	
C4042	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C4043	ECUX1H102JCV	C.CAPACITOR CH 50V 1000P	1	
C4044	ECUX1H390JCV	C.CAPACITOR CH 50V 39P	1	
C4047,48	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C4049	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C4050	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C4051,52	ECHS1682JZ	P.CAPACITOR 100V 6800P	2	
C4053	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C4055	ECUM1C105KBM	C.CAPACITOR CH 16V 1U	1	
C5001-03	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5004	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
C5006	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5007	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C5008	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5012,13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5014,15	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	2	
C5016,17	F1L1E4750006	C.CAPACITOR CH 25V 4.7U	2	
C5018-25	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C5101	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5102	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C5103-06	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C5107,08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5109,10	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C5111	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5112	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C5113-16	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C5117,18	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C5119-22	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	4	
C5123	ECUX1H121JCV	C.CAPACITOR CH 50V 120P	1	
C5124-27	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C5131	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5133-35	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5161	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5163-65	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5201-04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C5205	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C5206	ECUX1H181JCV	C.CAPACITOR CH 50V 180P	1	
C5207	ECUX1H030CCV	C.CAPACITOR CH 50V 3P	1	
C5208	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C5209,10	ECUX1H030CCV	C.CAPACITOR CH 50V 3P	2	
C5211	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5252-54	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C5255	ECUX1H220JCV	C.CAPACITOR CH 50V 22P	1	
C5256	ECUX1H181JCV	C.CAPACITOR CH 50V 180P	1	
C5257	ECUX1H030CCV	C.CAPACITOR CH 50V 3P	1	
C5258	ECUX1H180JCV	C.CAPACITOR CH 50V 18P	1	
C5259,60	ECUX1H030CCV	C.CAPACITOR CH 50V 3P	2	
C5261	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5301	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C5302	EEVHB0J101	E.CAPACITOR 6.3V 100U	1	
C5305	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C5307,08	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C5312-14	EEVHB1C470	E.CAPACITOR 16V 47U	3	
C5316	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C5321-37	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	17	
D4001	MA142K	DIODE	1	
D4003	MA716	DIODE	1	
D4004,05	MA142K	DIODE	2	
D5001	MA142K	DIODE	1	
D5002-05	MA142WK	DIODE	4	
D5301	MA3J14300L	DIODE	1	
D5302	MA142K	DIODE	1	
D5303	MA716	DIODE	1	
FL4001	EIR7QF012B	TRANSFORMER	1	
IC4001,02	C0ABBB000184	IC	2	
IC4003	NJM78L09UA	IC	1	C0CBAHC00002
IC4005	XC62FP5002P	IC	1	
IC4006	XC62DN5002P	IC	1	
IC4007	NJM78L09UA	IC	1	C0CBAHC00002
IC5001	TVHT244FT	IC	1	
IC5002	TC7WU04FU	IC	1	
IC5003	TVHC02FT	IC	1	
IC5004-07	TC4S30F	IC	4	C0JBAZ000429
IC5101,02	UPC5102GS030	IC	2	C1ZBZ0001316
IC5103,04	TC4S30F	IC	2	C0JBAZ000429
IC5201	NJM082BV	IC	1	
IC5202,03	TC4S69F	IC	2	C0JBAB000138
IC5252,53	TC4S69F	IC	2	C0JBAB000138
IC5301	XC62FP5002P	IC	1	
IC5302,03	XC62DN5002P	IC	2	
L4001	VLQ0423J472	COIL 4700UH	1	
L4004	VLQ0651K181	COIL 180UH	1	G1C181KA0013
L4005	VLQ0651K391	COIL 390UH	1	G1C391KA0013
L5001,02	VLQ0319K330	COIL 33UH	2	G1C330KA0002
L5201,02	VLQ0163J2R2	COIL 2.2UH	2	G1C2R2J00009
L5251,52	VLQ0163J2R2	COIL 2.2UH	2	G1C2R2J00009
L5301-07	VLF1151A132	COIL	7	
P4001	VJP2278	CONNECTOR (MALE)	1	K1KA09A00087
P5001	VJS3375B060	CONNECTOR (FEMALE)	1	K1KB60B00011
P5002	VJS3900C013	CONNECTOR (FEMALE)	1	K1MN13A00023
P5003	VJS3900C010	CONNECTOR (FEMALE)	1	K1MN10A00034
Q4001	2SB779-R	TRANSISTOR	1	
Q4003	2SD874-R	TRANSISTOR	1	
Q4005	2SB792-R	TRANSISTOR	1	
Q4006,07	2SD1149-R	TRANSISTOR	2	
Q4008,09	2SD1979	TRANSISTOR	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q4010	2SB779-R	TRANSISTOR	1	
Q4011	2SD874-R	TRANSISTOR	1	
Q5001-04	2SC3935	TRANSISTOR	4	
Q5005,06	2SC2954	TRANSISTOR	2	
Q5007	2SA1532	TRANSISTOR	1	
Q5008	2SC2954	TRANSISTOR	1	
Q5009,10	2SK508K512	TRANSISTOR	2	
Q5011-14	XN1504	TRANSISTOR-RESISTOR	4	
Q5101,02	XN1504	TRANSISTOR-RESISTOR	2	
Q5103	2SA1532	TRANSISTOR	1	
Q5111	XN6537	TRANSISTOR-RESISTOR	1	
Q5112,13	2SC3930	TRANSISTOR	2	
Q5114,15	2SD1979	TRANSISTOR	2	
Q5116,17	XP6534	TRANSISTOR-RESISTOR	2	
Q5121	XN6537	TRANSISTOR-RESISTOR	1	
Q5122,23	2SC3930	TRANSISTOR	2	
Q5124,25	2SD1979	TRANSISTOR	2	
Q5126,27	XP6534	TRANSISTOR-RESISTOR	2	
Q5201	2SD601A	TRANSISTOR	1	
Q5202	2SB709A	TRANSISTOR	1	
Q5203,04	2SC3735B35	TRANSISTOR	2	
Q5251	2SD601A	TRANSISTOR	1	
Q5252	2SB709A	TRANSISTOR	1	
Q5253,54	2SC3735B35	TRANSISTOR	2	
Q5301	2SB1218A	TRANSISTOR	1	
Q5302	2SD1819A-R	TRANSISTOR	1	
QR4001	UN5113	TRANSISTOR-RESISTOR	1	
QR4003	UN5213	TRANSISTOR-RESISTOR	1	
QR4005	UN5213	TRANSISTOR-RESISTOR	1	
QR4006	UN5215	TRANSISTOR-RESISTOR	1	
QR4007,08	UN5113	TRANSISTOR-RESISTOR	2	
QR4009,10	UN5213	TRANSISTOR-RESISTOR	2	
QR5001	UN5111	TRANSISTOR-RESISTOR	1	
QR5002	UN5211	TRANSISTOR-RESISTOR	1	
QR5003,04	UN5111	TRANSISTOR-RESISTOR	2	
QR5101	UN5113	TRANSISTOR-RESISTOR	1	
QR5201	UN5211	TRANSISTOR-RESISTOR	1	
QR5251	UN5211	TRANSISTOR-RESISTOR	1	
QR5301	UN5211	TRANSISTOR-RESISTOR	1	
R4001	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4002	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R4003	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R4005	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R4006	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4007	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4009	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R4010	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4011	ERJ8GEYJ1R0	M.RESISTOR CH 1/8W 1	1	
R4013	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R4014	ERJ3GEYJ390	M.RESISTOR CH 1/16W 39	1	
R4017	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4020	ERJ3GEYG822	M.RESISTOR CH 1/16W 8.2K	1	
R4021	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4022	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4023,24	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	2	
R4025	ERJ6GEYF561	M.RESISTOR CH 1/10W 560	1	
R4026	ERJ6GEYF472	M.RESISTOR CH 1/10W 4.7K	1	
R4027	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4028	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4029	ERJ6GEYJ100	M.RESISTOR CH 1/10W 10	1	
R4030	ERJ6GEYJ1R0	M.RESISTOR CH 1/10W 1	1	
R4032	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R4033	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4034	ERJ3GEYJ681	M.RESISTOR CH 1/16W 680	1	
R4035	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R4036	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R4037	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R4038	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R4039	ERJ8GEYJ1R0	M.RESISTOR CH 1/8W 1	1	
R4040	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R4041	ERJ3GEYJ390	M.RESISTOR CH 1/16W 39	1	
R4042	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4043,44	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R4045	ERJ3GEYJ124	M.RESISTOR CH 1/16W 120K	1	
R4046	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R4047,48	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R4049	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R4050	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R4051	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R5001	D1H84734A008	COMBI.R-R	1	
R5002	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	1	
R5003	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5004	D1H810140001	COMBI.R-R	1	
R5005,06	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	2	
R5011	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R5012,13	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5014,15	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R5016,17	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5018,19	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	2	
R5020,21	ERJ3GEYJ151	M.RESISTOR CH 1/16W 150	2	
R5022,23	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	2	
R5024	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R5025	ERJ12YJ270	M.RESISTOR CH 1/2W 270	1	
R5028-31	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	4	
R5032,33	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R5034	ERJ6RED820	M.RESISTOR CH 1/10W 82	1	
R5035	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5036-39	ERJ6GEYG222	M.RESISTOR CH 1/10W 2.2K	4	
R5040	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5041,42	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R5043-46	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R5050	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5051,52	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R5053-56	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	4	
R5101	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R5111	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R5112-15	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	4	
R5116	D1H84734A008	COMBI.R-R	1	
R5117,18	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	2	
R5119-21	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R5131,32	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5133	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R5134	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R5135,36	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5137,38	ERJ3RBD561	M.RESISTOR CH 1/16W 560	2	
R5139,40	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5141	ERJ3RBD181	M.RESISTOR CH 1/16W 180	1	
R5142	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R5143	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R5144,45	ERJ3RBD561	M.RESISTOR CH 1/16W 560	2	
R5146,47	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5148,49	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5150	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R5151-54	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	4	
R5155	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5156	ERJ3RBD821	M.RESISTOR CH 1/16W 820	1	
R5161,62	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5163	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R5164	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R5165,66	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5167,68	ERJ3RBD561	M.RESISTOR CH 1/16W 560	2	
R5169,70	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R5171	ERJ3RBD181	M.RESISTOR CH 1/16W 180	1	
R5172	ERJ3RBD221	M.RESISTOR CH 1/16W 220	1	
R5173	ERJ3RBD151	M.RESISTOR CH 1/16W 150	1	
R5174,75	ERJ3RBD561	M.RESISTOR CH 1/16W 560	2	
R5176,77	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R5178,79	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R5180	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R5181-84	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	4	
R5186	ERJ3RBD471	M.RESISTOR CH 1/16W 470	1	
R5202	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5203	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5205	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5206	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5207	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R5208	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5209	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R5210	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R5211	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5212	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R5213	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5214	ERJ6RED270	M.RESISTOR CH 1/10W 27	1	
R5215,16	ERJ3RED560	M.RESISTOR CH 1/16W 56	2	
R5217	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5218	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R5219	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5220	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R5252	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R5253	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5255	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5256	ERJ3GEYJ222	M.RESISTOR CH 1/16W 2.2K	1	
R5257	ERJ3GEYJ392	M.RESISTOR CH 1/16W 3.9K	1	
R5258	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5259	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	1	
R5260	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R5261	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5262	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R5263	ERJ3RBD102	M.RESISTOR CH 1/16W 1K	1	
R5264	ERJ6RED270	M.RESISTOR CH 1/10W 27	1	
R5265,66	ERJ3RED560	M.RESISTOR CH 1/16W 56	2	
R5267	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5268	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R5269	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R5270	ERJ3RBD123	M.RESISTOR CH 1/16W 12K	1	
R5301	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5302	ERJ3GEYJ683	M.RESISTOR CH 1/16W 68K	1	
R5303	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R5304	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R5305	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R5311,12	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R5313-17	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	5	
RY4001	VSY2176	RELAY	1	K6B2CDA00045
RY5001	VSY2176	RELAY	1	K6B2CDA00045
RY5301	VSY2176	RELAY	1	K6B2CDA00045
T4001	VLT0729	TRANSFORMER	1	
T4003	VLT0729	TRANSFORMER	1	
TG4001	EYF6CU	TEST POINT	1	
TG5001	EYF6CU	TEST POINT	1	
TP4001,02	EYF6CU	TEST POINT	2	
TP4005,06	EYF6CU	TEST POINT	2	
TP5001	EYF6CU	TEST POINT	1	
VR4001	EVMEGSA00B54	V.RESISTOR 50K	1	
		MISCELLANEOUS		
	VMP5846	RF HOLDER ANGLE	1	
	VYQ1745	SHIELD CASE (UPPER) ASS'Y	1	
	VSC4933	SHILD HOLDER ANGLE	1	
	VSC4934	SHIELD ANGLE	1	
	VSC4928	EARTH FINGER	1	
	XSN26+3	SCREW	1	
	VSC4386	RF SHIELD CASE (MIDDLE)	1	
	XTV3+6FFR	SCREW	2	
	VSC4437	RF SHIELD CASE (LOWER)	1	
	VMZ2588	RF BARRIER	1	
■ E10	VEP80C14A	MOTHER P.C.BOARD0	1	(RTL)
C1,C2	ECA1CHG682	E.CAPACITOR 16V 6800U	2	
D1	21DQ04	DIODE	1	B0JAME000021

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
L1,L2	VLP0017	COIL	2	J0JHB0000010
P1	K1KB96A00048	CONNECTOR (FEMALE)	1	
P3-P9	K1KB96A00048	CONNECTOR (FEMALE)	7	
P11-15	K1KB96A00048	CONNECTOR (FEMALE)	5	
P16	VJP3375A060	CONNECTOR (MALE)	1	K1KA60A00083
P17	K1KB96A00048	CONNECTOR (FEMALE)	1	
P18,19	K1KA08A00283	CONNECTOR (MALE)	2	
P20	K1KB22B00010	CONNECTOR (FEMALE)	1	
P21	VJP3454B096	CONNECTOR (MALE)	1	K1KA96B00021
		MISCELLANEOUS		
	VKC0392	SPACER	1	
	VMP6815	JACK PB GUIDE ANGLE (B)	1	
	VMP6817	MOTHER ANGLE (B)	1	
	VMP6816	MOTHER ANGLE (A)	1	
	VMP6824	MOTHER ANGLE (C)	1	
	XYE3+EF8FZ	SCREW	8	
	XTV3+6F	SCREW	2	
	VMX2541	P.C.BOARD SPACER	1	
■ E11	VEP82239A	MECHA I/F P.C.BOARD0	1	(RTL)
C1,C2	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C3	ECUX1H561JCV	C.CAPACITOR CH 50V 560P	1	
C4	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C5	EEVHB1C220	E.CAPACITOR 16V 22U	1	
C6	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	1	
C8	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C9,10	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C11,12	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C14,15	ECUX1H103ZFV	C.CAPACITOR CH 50V 0.01U	2	
C16	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C17	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C151-59	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	9	
C160-63	EEVHB1C470	E.CAPACITOR 16V 47U	4	
C164,65	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C201-03	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	3	
D1	MA147	DIODE	1	
D153,54	MA716	DIODE	2	
IC1,C2	0P177GS	IC	2	
IC3	NJM4580ED	IC	1	C0ABBB000123
IC4-C6	NJM4558M	IC	3	C0ABBB000044
IC151	NJM78L09UA	IC	1	C0CBAHC00002
IC152	NJM79L09UA	IC	1	C0CABBF00001
IC153-55	TVHC14FT	IC	3	
IC156,57	TVHC165FT	IC	2	
L151,52	VLF1151A132	COIL	2	
P11	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P12	VJP3172D005	CONNECTOR (MALE)	1	K1KA05B00053
P13	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P14	VJP3172D003	CONNECTOR (MALE)	1	K1KA03B00006
P15	VJP3518B002	CONNECTOR (MALE)	1	
P16	VJP3518B003	CONNECTOR (MALE)	1	
P17	VJS3801D015	CONNECTOR (FEMALE)	1	
P18	VJP3518B002	CONNECTOR (MALE)	1	
P19	VJP3172D002	CONNECTOR (MALE)	1	K1KA02B00051
P20	VJP3518B003	CONNECTOR (MALE)	1	
P21	VJP3518B002	CONNECTOR (MALE)	1	
P22	VJP3172D004	CONNECTOR (MALE)	1	K1KA04B00007
P24	VJP3518B002	CONNECTOR (MALE)	1	
P25	VJP1230T	CONNECTOR (MALE) 3P	1	
P26	VJP1236T	CONNECTOR (MALE) 9P	1	K1KA09A00023
P30	VJP3172D003	CONNECTOR (MALE)	1	K1KA03B00006
P32	VJP3172D004	CONNECTOR (MALE)	1	K1KA04B00007

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
P33	VJS3406B015	CONNECTOR (FEMALE)	1	
P34,35	VJS2889A017	CONNECTOR (FEMALE)	2	K1MN17A00008
P36	VJS3406B019	CONNECTOR (FEMALE)	1	
P48	VJP3125B002	CONNECTOR (MALE)	1	K1KA02B00111
P151	VJS2899A096	CONNECTOR (FEMALE)	1	K1KB96A00035
Q1	2SB1218A-R	TRANSISTOR	1	
Q101-08	B1DZED000002	TRANSISTOR	8	
QR101-12	UN5213	TRANSISTOR-RESISTOR	12	
R1,R2	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	2	
R5	ERJ3RBD104	M.RESISTOR CH 1/16W 100K	1	
R6	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R7,R8	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	2	
R9	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R10	ERJ3RBD823	M.RESISTOR CH 1/16W 82K	1	
R11	ERJ3RBD273	M.RESISTOR CH 1/16W 27K	1	
R12	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K	1	
R13	ERJ3RBD682	M.RESISTOR CH 1/16W 6.8K	1	
R14	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R15	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R16	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R17	ERJ3RBD392	M.RESISTOR CH 1/16W 3.9K	1	
R18	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R19	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R20	ERJ3RBD333	M.RESISTOR CH 1/16W 33K	1	
R21	ERJ3RBD103	M.RESISTOR CH 1/16W 10K	1	
R22	ERJ3GEYJ562	M.RESISTOR CH 1/16W 5.6K	1	
R23	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R24	ERJ3RBD562	M.RESISTOR CH 1/16W 5.6K	1	
R25	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R26	ERJ3RBD183	M.RESISTOR CH 1/16W 18K	1	
R27	ERJ3RBD473	M.RESISTOR CH 1/16W 47K	1	
R101-04	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	4	
R105-07	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	3	
R108,09	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R110	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	1	
R111,12	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	2	
R113-16	ERJ3GEYJ272	M.RESISTOR CH 1/16W 2.7K	4	
R151-64	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	14	
R165	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R166,67	ERJ3GEYJ473	M.RESISTOR CH 1/16W 47K	2	
R168,69	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R201,02	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	2	
VR1	EVMECSA00B24	V.RESISTOR 20K	1	
VR2	EVMECSA00B54	V.RESISTOR 50K	1	
VR201,02	EVMECSA00B24	V.RESISTOR 20K	2	
■E12	VEP82240A	MECHA I/F 2 P.C.BOARD0	1	(RTL)
P1001	VJP3454B096	CONNECTOR (MALE)	1	K1KA96B00021
P1002	K1KA96B00032	CONNECTOR (MALE)	1	
		MISCELLANEOUS		
	VMP6808	CONNECTION PB ANGLE	1	
	XTV3+6F	SCREW	2	
■E13	VEP81221B	POWER 1 P.C.BOARD0	1	(RTL)
C1002,03	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	2	
C1004	ECHU1H471GB	P.CAPACITOR 50V 470P	1	
C1005	ECUM1C104KBN	C.CAPACITOR CH 16V 0.1U	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1006	ECA1HXL010	E.CAPACITOR 50V 1U	1	
C1007	ECQE6473KF	P.CAPACITOR 630V 0.047U	1	
C1008	VCK0106K221	C.CAPACITOR 220P	1	
C1009	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	1	
C1010	ECUX1H562KBV	C.CAPACITOR CH 50V 5600P	1	
C1011	ECA1VXL470	E.CAPACITOR 35V 47U	1	
C1012	ECA1HXL330	E.CAPACITOR 50V 33P	1	
C1015	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1017	ECJ2XB1H332K	C.CAPACITOR CH 50V 3300P	1	
C1101	ECA1HXL100	E.CAPACITOR 50V 10U	1	
⚠ C1107	ECQU2A474ML	P.CAPACITOR 100V 0.47U	1	
⚠ C1109	VCK0262M102A	C.CAPACITOR 1000P	1	F1BAH1020001
C1110,11	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	2	
C1114	ECUM1E474ZFM	C.CAPACITOR CH 25V 0.47U	1	
C1116	ECUX1H102KBV	C.CAPACITOR CH 50V 1000P	1	
C1117	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1119	ECQV1H684JF	P.CAPACITOR 50V 0.68U	1	
⚠ C1120	VCK0262M102A	C.CAPACITOR 1000P	1	F1BAH1020001
C1122	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1123	ECQE2W225KC	P.CAPACITOR 450V 2.2U	1	
C1124	EEUFC1H121L	E.CAPACITOR 50V 120U	1	
C1125	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C1126	ECUX1H392KBV	C.CAPACITOR CH 50V 3900P	1	
C1127	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1128	ECQF6222JZ	P.CAPACITOR 630V 2200P	1	
C1129	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1130,31	VCK0106K471	C.CAPACITOR 470P	2	
C1132	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C1133,34	VCK0106K471	C.CAPACITOR 470P	2	
C1135	ECEC2WC151CB	E.CAPACITOR 450V 150P	1	
C1138	ECA1HXL100	E.CAPACITOR 50V 10U	1	
⚠ C1139	VCK0262M102A	C.CAPACITOR 1000P	1	F1BAH1020001
C1140	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1201-10	ECQE6473KF	C.CAPACITOR 1000P	10	
C1211-14	EEUFC1A682	E.CAPACITOR 10V 6800U	4	
C1215	EEUFC1E182	E.CAPACITOR 25V 1800U	1	
C1217	ECUM1E224KBN	C.CAPACITOR CH 25V 0.22U	1	
C1218	EEUFC1A682	E.CAPACITOR 10V 6800U	1	
C1219,20	EEUFC1E102LE	E.CAPACITOR 25V 1000U	2	
C1221	EEUFC1A682	E.CAPACITOR 10V 6800U	1	
C1222	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C1223	ECA1EXL101	E.CAPACITOR 25V 100U	1	
C1224-26	ECA1CXL101	E.CAPACITOR 16V 100U	3	
C1227,28	ECA1EXL101	E.CAPACITOR 25V 100U	2	
C1229,30	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C1231	ECA1CXL101	E.CAPACITOR 16V 100U	1	
C1232	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	1	
C1233	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1234	ECA1HXL100	E.CAPACITOR 50V 10U	1	
C1235	ECA1HXL2R2	E.CAPACITOR 50V 2.2U	1	
C1236,37	ECUX1C104ZFV	C.CAPACITOR CH 16V 0.1U	2	
C1239	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	1	
C1240,41	ECQE6473KF	C.CAPACITOR 1000P	2	
C1242	ECUM1H104ZFN	C.CAPACITOR CH 50V 0.1U	1	
C1243	ECA1EXL101	E.CAPACITOR 25V 100U	1	
C1244	ECUX1H221JCV	C.CAPACITOR CH 50V 220P	1	
D1001	MA142WA	DIODE	1	
D1002	MA142K	DIODE	1	
D1003	MA3240-H	DIODE	1	
D1005	EG01C	DIODE	1	B0HAGV000001
D1006	MA3051-M	DIODE	1	MAZ30510ML
D1007	SFPL-52	DIODE	1	
D1008	MA3200-M	DIODE	1	
D1009,10	SFPL-52	DIODE	2	
D1013	SFPL-52	DIODE	1	
D1101,02	MA3200-M	DIODE	2	
D1103	MA3068-M	DIODE	1	
D1104	MA142K	DIODE	1	
D1105,06	ERA15-08	DIODE	2	B0AAMT000001
D1107	MA142K	DIODE	1	
D1108	MA1070400L	DIODE	1	
D1109	RBV606	DIODE	1	
D1110	MA701A	DIODE	1	
D1111,12	MA3200-M	DIODE	2	

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
D1113-15	SFPL-52	DIODE	3	
D1116	MA3068-M	DIODE	1	
D1117	MA142K	DIODE	1	
D1118	FML-G26S	DIODE	1	
D1119,20	ERA15-08	DIODE	2	B0AAMT000001
D1201	FMBG24H	DIODE	1	
D1202,03	FML-G12SP	DIODE	2	
D1204	D20LC20U	DIODE	1	B0HBSM000021
D1205	FML-G12SP	DIODE	1	
D1206	MA142WA	DIODE	1	
D1207	FML-G12SP	DIODE	1	
D1208	MA142K	DIODE	1	
D1209	MA3160-L	DIODE	1	
D1210	MA142K	DIODE	1	
D1211	MA3100-M	DIODE	1	
D1212	MA3051-M	DIODE	1	MAZ30510ML
D1213	MA3240-H	DIODE	1	
D1214	MA3160-L	DIODE	1	
D1215	MA3100-M	DIODE	1	
D1216	MA142K	DIODE	1	
D1218	MA142K	DIODE	1	
D1219	MA3027-H	DIODE	1	
D1221	MA3027-H	DIODE	1	
D1222-24	MA142K	DIODE	3	
IC1001	FA5311BP	IC	1	C0DAAZZ00002
IC1101	MC33262P	IC	1	C0DAZZZ00013
IC1102	M51945BL	IC	1	C0EAB0000004
IC1103	M51951BL	IC	1	C0EAH0000030
IC1201	UPC1944J	IC	1	C0DAZLB00001
IC1202	C0DAEZH00010	IC	1	
IC1203	UPC1093J	IC	1	C0DAEMC00002
IC1204	NJM2903M	IC	1	C0BBBA000019
IC1205	PQ30RV31	IC	1	
L1001	VLP0074	COIL	1	J0JDB0000002
⚠ L1102,03	ELF21N020A	FILTER	2	
L1104	VLQ0820	COIL	1	
L1201	VLQ0655K220	COIL 22UH	1	
L1202	VLQ0826M4R7	COIL 4.7UH	1	
L1203	VLQ0826M100	COIL 10UH	1	
L1204,05	VLQ0826K220	COIL 22UH	2	
L1206	VLQ0655K220	COIL 22UH	1	
P1103	VJP2638	CONNECTOR (MALE)	1	K1KA02A00112
P1201,02	K1KB08A00077	CONNECTOR (FEMALE)	2	
⚠ Q1001	B1DEFV000001	TRANSISTOR	1	
⚠ Q1002-04	PS2561L1V1WL	TRANSISTOR	3	B3QAZ0000030
Q1101	2SJ278	TRANSISTOR	1	
Q1102	TM1661S-L	DIODE	1	
Q1103	B1DEGR000013	TRANSISTOR	1	
Q1201	XN4501	TRANSISTOR-RESISTOR	1	
Q1202	XN4401	TRANSISTOR-RESISTOR	1	
Q1203	XN4501	TRANSISTOR-RESISTOR	1	
QR1001	UN2213	TRANSISTOR-RESISTOR	1	
QR1002	UN2111	TRANSISTOR-RESISTOR	1	
QR1101	UN2112	TRANSISTOR-RESISTOR	1	
QR1102	UN2215	TRANSISTOR-RESISTOR	1	
QR1103	UN2113	TRANSISTOR-RESISTOR	1	
QR1104,05	UN2213	TRANSISTOR-RESISTOR	2	
QR1201	UN2211	TRANSISTOR-RESISTOR	1	
QR1202	UN2214	TRANSISTOR-RESISTOR	1	UNR221400L
QR1203	UN2111	TRANSISTOR-RESISTOR	1	
QR1204	UN2214	TRANSISTOR-RESISTOR	1	UNR221400L
QR1205	UN2111	TRANSISTOR-RESISTOR	1	
QR1206,07	UN2213	TRANSISTOR-RESISTOR	2	
R1002	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1003	VRT0142	THERMISTOR	1	D4DDB3310005
R1004	ERW1PKR33	W.RESISTOR 1W 0.33	1	
R1005	ERJ3GEYJ334	M.RESISTOR CH 1/16W 330K	1	
R1006	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R1007	ERJ3GEYJ225	M.RESISTOR CH 1/16W 2.2M	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1008,09	ERG3SJ333	M.RESISTOR 3W 33K	2	
R1010	ERG2SJ180	M.RESISTOR 2W 18	1	
R1011	ERJ6RBD241	M.RESISTOR CH 1/10W 240	1	
R1012	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R1013	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1014	ERJ3GEYG471	M.RESISTOR CH 1/16W 470	1	
R1015	ERJ12YJ220	M.RESISTOR CH 1/2W 22	1	
R1016,17	ERJ12YJ224	M.RESISTOR CH 1/2W 220K	2	
R1018	ERJ6RBD271	M.RESISTOR CH 1/10W 270	1	
R1019	ERJ3GEYJ183	M.RESISTOR CH 1/16W 18K	1	
R1020	ERJ6GEYG154	M.RESISTOR CH 1/10W 150K	1	
R1021	ERJ14YJ100	M.RESISTOR CH 1/4W 10	1	
R1022	ERJ14YJ4R7	M.RESISTOR CH 1/4W 4.7	1	
R1101,02	ERG3SJ333	M.RESISTOR 3W 33K	2	
R1103	ERJ6RBD273	M.RESISTOR CH 1/10W 27K	1	
R1104	ERJ6RBD183	M.RESISTOR CH 1/10W 18K	1	
R1105	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R1107	ERJ3RED224	M.RESISTOR CH 1/16W 220K	1	
R1108	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1109	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R1110	ERJ3RED334	M.RESISTOR CH 1/16W 330K	1	
R1112-14	ERJ12YJ224	M.RESISTOR CH 1/2W 220K	3	
R1115,16	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	2	
R1117,18	ERJ14YJ474	M.RESISTOR CH 1/4W 470K	2	
R1119	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1121,22	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R1123,24	ERJ12YJ683	M.RESISTOR CH 1/2W 63K	2	
⚠ R1125	ERU5TEJ100	F.RESISTOR 5W 10	1	
R1127-30	ERJ12YJ683	M.RESISTOR CH 1/2W 63K	4	
R1131	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1132	ERG2SJ221	M.RESISTOR 2W 220	1	
R1133	ERJ6GEYF123	M.RESISTOR CH 1/10W 12K	1	
R1134	ERJ3GEYJ153	M.RESISTOR CH 1/16W 15K	1	
R1135	ERJ12YJ100	M.RESISTOR CH 1/2W 10	1	
R1136	ERJ6GEYG221	M.RESISTOR CH 1/10W 220	1	
R1137	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R1139	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1140	ERJ14YJ100	M.RESISTOR CH 1/4W 10	1	
R1141	ERJ14YJ220	M.RESISTOR CH 1/4W 22	1	
R1142,43	ERJ12YJ224	M.RESISTOR CH 1/2W 220K	2	
R1144	ERJ12YJ154	M.RESISTOR CH 1/2W 150K	1	
R1145	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1146	ERJ12YJ472	M.RESISTOR CH 1/2W 4.7K	1	
R1147	ERG2SJ220	M.RESISTOR 2W 22	1	
R1148	ERF2TKR15	W.RESISTOR 2W 0.15	1	
R1150-52	ERJ12YJ154	M.RESISTOR CH 1/2W 150K	3	
R1153	ERJ6RBD272	M.RESISTOR CH 1/10W 2.7K	1	
R1154	ERJ6GEYG104	M.RESISTOR CH 1/10W 100K	1	
R1155	ERG2SJ220	M.RESISTOR 2W 22	1	
R1161	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1165	ERJ3RBD223	M.RESISTOR CH 1/16W 22K	1	
R1167-69	ERJ12YJ154	M.RESISTOR CH 1/2W 150K	3	
R1201	ERJ6GEYG121	M.RESISTOR CH 1/10W 120	1	
R1202,03	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R1204-08	ERG2SJ220	M.RESISTOR 2W 22	5	
R1209	ERJ6GEYG332	M.RESISTOR CH 1/10W 3.3K	1	
R1210,11	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R1212	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1	
R1213	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R1214	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1215	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1216,17	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	2	
R1218,19	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	2	
R1220	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1221	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R1222	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R1223	ERJ3RBD621	M.RESISTOR CH 1/16W 620	1	
R1224	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	1	
R1225	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1226	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	1	
R1227	VRT0033	THERMISTOR	1	D4DDB3310004
R1228,29	ERJ3GEYJ121	M.RESISTOR CH 1/16W 120	2	
R1230	ERX2SJ0R1	M.RESISTOR 2W 0.1	1	
R1231	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1232	ERX2SJ0R1	M.RESISTOR 2W 0.1	1	

Components identified with the mark ⚠ have the special characterisitics for safety.
When replacing any of these components, use onlly the same type.

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R1233	ERJ3GEYG332	M.RESISTOR CH 1/16W 3.3K	1	
R1234	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1235	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1237-39	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R1240	ERJ3GEYJ224	M.RESISTOR CH 1/16W 220K	1	
R1241	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	1	
R1242	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1244	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R1245	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1247	ERG2SJ470	M.RESISTOR 2W 47	1	
R1248	ERG2SJ221	M.RESISTOR 2W 220	1	
R1249	ERJ3RBD822	M.RESISTOR CH 1/16W 8.2K	1	
R1250,51	ERJ12YJ224	M.RESISTOR CH 1/2W 220K	2	
R1252	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R1253	ERG2SJ220	M.RESISTOR 2W 22	1	
R1254	ERJ3RBD391	M.RESISTOR CH 1/16W 390	1	
R1255	ERJ3RBD332	M.RESISTOR CH 1/16W 3.3K	1	
⚠ T1001	ETS42AE326AD	TRANSFORMER	1	
VR1102	EVMEASA00B52	V.RESISTOR 500	1	
VR1201	EVMEASA00B13	V.RESISTOR 1K	1	
		MISCELLANEOUS		
	VJR1008	EARTH LUG	4	
⚠	VMZ1608	CAPACITOR TUBE	3	
	VSC5221	HEAT SINK (A)	1	
	VSC5222	HEAT SINK B	1	
	VLP0336	FERRITE CORE	4	
	VLP0394	FERRITE BEAD	3	J0KE00000032
	VMZ2919	BARRIER	1	
	XYN3+F6FZS	SCREW	2	
	XYN3+F8FZS	SCREW	9	
	XYN3+F10	SCREW	3	
	VJF1348	CLAMPER	1	
■ E14	VEP81222A	POWER 2 P.C.BOARD0	1	(RTL)
⚠ C1502	VCK0262K101A	C.CAPACITOR 100P	1	F1BAH101A001
⚠ C1503	ECQU2A224ML	P.CAPACITOR 100V 0.22U	1	
⚠ C1504	VCK0262K101A	C.CAPACITOR 100P	1	F1BAH101A001
⚠ L1501	ELF19N020A	FILTER	1	
⚠ P1501	VJS2985	CONNECTOR (FEMALE)	1	K2AH3H000012
P1502	VJP2638	CONNECTOR (MALE)	1	K1KA02A00112
⚠ R1506	ERC12AGM334	S.RESISTOR 1/2W 330K	1	
		MISCELLANEOUS		
⚠	VMZ1608	CAPACITOR TUBE	2	
	EYF52BC	FUSE HOLDER	2	
⚠	VSF0106C31H	FUSE	1	
	VJR1008	EARTH LUG	2	
	VEE9627	FG CABLE	1	
⚠	VMP6812	AC IN HOLDER ANGLE	1	
	XSN3+6FZ	SCREW	2	
	XYN3+F8	SCREW	2	
	XYN4+E6VW	SCREW	1	
⚠	VMZ0429	FUSE COVER	1	
■ E15	VEP80C13A	AV JACK P.C.BOARD0	1	(RTL)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C1	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C2	EEAHB1C470B	E.CAPACITOR 16V 47U	1	
C3,C4	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C5	EEAHB1C470B	E.CAPACITOR 16V 47U	1	
C6-C8	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C9,10	EEAHB1C470B	E.CAPACITOR 16V 47U	2	
C11,12	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C13,14	EEAHB1C470B	E.CAPACITOR 16V 47U	2	
C15-23	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	9	
C24,25	EEAHB1C470B	E.CAPACITOR 16V 47U	2	
C26	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C27,28	EEAHB1C470B	E.CAPACITOR 16V 47U	2	
C150	EEAHB1C470B	E.CAPACITOR 16V 47U	1	
C151,52	ECUM1H104KBN	C.CAPACITOR CH 50V 0.1U	2	
C155	ECUM1H270JCN	C.CAPACITOR CH 50V 27P	1	
C157	ECUM1H104KBN	C.CAPACITOR CH 50V 0.1U	1	
C158	EEAHB1C470B	E.CAPACITOR 16V 47U	1	
C160	EEAHB1C470B	E.CAPACITOR 16V 47U	1	
D1	MA716	DIODE	1	
IC1	NJM78L09UA	IC	1	C0CBAHC00002
IC2	NJM79L09UA	IC	1	C0CABBF00001
IC3	XC62FP5002P	IC	1	
IC4	XC62DN5002P	IC	1	
IC5	XC62FP5002P	IC	1	
IC6	XC62DN5002P	IC	1	
IC7	NJM360M	IC	1	C0BBZB000001
IC150	C0JBAB000243	IC	1	
J1	VJS3902	CONNECTOR (FEMALE)	1	K1CB204H0002
J2	VJS3901	CONNECTOR (FEMALE)	1	K1CB204H0004
J3,J4	K4BA04A00002	TERMINAL	2	
J5-J7	VJS3902	CONNECTOR (FEMALE)	3	K1CB204H0002
J8	VJS3901	CONNECTOR (FEMALE)	1	K1CB204H0004
J9	VJS3902	CONNECTOR (FEMALE)	1	K1CB204H0002
J10	VJP3414A009	CONNECTOR (MALE)	1	K1FB109A0016
J12	VJP3414A015	CONNECTOR (MALE)	1	K1FB115A0008
J13	VJP3414A025	CONNECTOR (MALE)	1	K1FB125A0011
J16	VJS3417	CONNECTOR (FEMALE)	1	K1AB103A0007
J17	VJP3417	CONNECTOR (MALE)	1	K1AA103A0003
J18	K2HA101A0012	JACK	1	
J20	VJS3417	CONNECTOR (FEMALE)	1	K1AB103A0007
J21	VJP3417	CONNECTOR (MALE)	1	K1AA103A0003
L2	VLP0145	COIL	1	
L4	VLP0145	COIL	1	
L6	VLP0145	COIL	1	
L8,L9	VLP0145	COIL	2	
L11	VLP0145	COIL	1	
L13	VLP0145	COIL	1	
L15	VLP0145	COIL	1	
L17	VLP0145	COIL	1	
L18	VLQ0426J1R8	COIL 1.8UH	1	G1C1R8J00007
L150	VLQ0319K470	COIL 47UH	1	G1C470K00013
P1	VJS3814	CONNECTOR (FEMALE)	1	K1KB96A00037
P2	VJP1243T	CONNECTOR (MALE) 3P	1	
Q1,Q2	2SC2295-C	TRANSISTOR	2	
Q150,51	2SC3930	TRANSISTOR	2	
Q152	2SA1532	TRANSISTOR	1	
Q153	2SC3930	TRANSISTOR	1	
Q154	2SA1532	TRANSISTOR	1	
R1-R3	ERJ6GEYJ820	M.RESISTOR CH 1/10W 82	3	
R4	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R6	ERJ6GEYJ820	M.RESISTOR CH 1/10W 82	1	
R7	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R8	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R9	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R10	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	1	
R11	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R12	ERJ6GEYG273	M.RESISTOR CH 1/10W 27K	1	
R13	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R14	ERJ6GEYG681	M.RESISTOR CH 1/10W 680	1	
R15	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	1	
R20	ERJ6GEYG101	M.RESISTOR CH 1/10W 100	1	
R21	ERJ6GEYG220	M.RESISTOR CH 1/10W 22	1	
R22	ERJ6GEYJ820	M.RESISTOR CH 1/10W 82	1	
R23-25	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	3	
R26	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	
R30-45	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	16	
R101	ERJ6GEY0R00	M.RESISTOR CH 1/10W 0	1	
R153,54	ERJ6GEYG102	M.RESISTOR CH 1/10W 1K	2	
R155	ERJ6GEYG471	M.RESISTOR CH 1/10W 470	1	
R156	ERJ6GEYG330	M.RESISTOR CH 1/10W 33	1	
R157,58	ERJ6GEYJ4R7	M.RESISTOR CH 1/10W 4.7K	2	
R159	ERJ6GEYG750	M.RESISTOR CH 1/10W 75	1	
SW1,W2	VSS0307	SWITCH	2	K0D122A00105
		MISCELLANEOUS		
	VMP4866	D SUB ANGLE	1	
	VXQ0102	SCREW	6	K1YE50000008
	XYN26+F8	SCREW	2	
	VMP6814	JACK PB GUIDE ANGLE (A)	1	
	VSC5248	EARTH ANGLE	2	
■ E16	VEP86315A	FRONT P.C.BOARD0	1	(RTL)
C1-C7	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	7	
C50,51	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	2	
C52	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C53	EEUFC1J470	E.CAPACITOR 6.3V 47P	1	
C54	EEUFC1A681	E.CAPACITOR 10V 680U	1	
C55,56	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C57	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C58	ECUX1C333KBV	C.CAPACITOR CH 16V 0.033U	1	
C60	ECUX1C473KBV	C.CAPACITOR CH 16V 0.047U	1	
C104	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C105	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C106	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C107	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C108-13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C114,15	EEVHB1C470	E.CAPACITOR 16V 47U	2	
C116,17	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C119	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C120	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C121	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
D1	LN28RCPP	LED	1	
D2-D5	LN38GCPP	LED	4	
D6	MA716	DIODE	1	
D7,D8	LN48YCPP	LED	2	
D9,10	LN38GCPP	LED	2	
D25	MA4300-M	DIODE	1	
D26	MA185	DIODE	1	
D27	MA4062M	DIODE	1	MAZ40620M
D28,29	MA166	DIODE	2	
D101-07	MA716	DIODE	7	
DP1	VSL0489	DISPLAY	1	A2BA00000191
IC1-C4	TVHC165FT	IC	4	
IC5	TC74HC4094F	IC	1	C0JBAQ000104
IC6	TC74HC4050AF	IC	1	
IC7	UPD16310GF	IC	1	
IC8	TVHC123FT	IC	1	
IC9	XC62FP5002P	IC	1	
IC10	NJM2904M	IC	1	
IC11	NJM78L09UA	IC	1	C0CBAHC00002
IC12	NJM79L09UA	IC	1	C0CABBF00001
IC13	TVHT04FT	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC14	NJM78L09UA	IC	1	C0CBAHC00002
L1,L2	VLF1151A132	COIL	2	
P1	K1KA22C00001	CONNECTOR (MALE)	1	
P2	K1KB08C00003	CONNECTOR (FEMALE)	1	
Q6,Q7	2SC1815Y	TRANSISTOR	2	B1AACF000024
Q8	2SC3074Y	TRANSISTOR	1	B1BADF000002
QR1-R7	UN2214	TRANSISTOR-RESISTOR	7	UNR221400L
R1-32	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	32	
R33-37	ERJ3GEYJ221	M.RESISTOR CH 1/16W 220	5	
R38	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R40	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R50	ERDS2TJ222	C.RESISTOR 1/4W 2.2K	1	
R51	ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R52	ERDS2TJ220	C.RESISTOR 1/4W 22	1	
R53	ERJ6GEYG103	M.RESISTOR CH 1/10W 10K	1	
R54	ERDS2TJ221	C.RESISTOR 1/4W 220	1	
R55	ERDS2TJ103	C.RESISTOR 1/4W 10K	1	
R57	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R58	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R59,60	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R61,62	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	2	
R100	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R101	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R102	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R103	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R104	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R105	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R106	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R107	ERJ3GEYJ474	M.RESISTOR CH 1/16W 470K	1	
R108,09	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R110	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R111	D1H84734A008	COMBI.R-R	1	
R112,13	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R114	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
R116	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R118	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
SW2-W8	VSP1005	SWITCH	7	K0H1BA000148
SW9-16	VSP1031	SWITCH	8	K0H1BA000328
SW17-19	VSS0280	SWITCH	3	K0D123A00061
SW20	VSS0346	SWITCH	1	K0D123A00043
SW21,22	VSS0280	SWITCH	2	K0D123A00061
SW23	VSS0346	SWITCH	1	K0D123A00043
TR1	VLT0884	TRANSFORMER	1	G4ZZ00000366
VR1,R2	EVUFSA003B14	V.RESISTOR 10K	2	
		MISCELLANEOUS		
	VMX1858	LED SPACER	9	
	VJF1360	DISPLAY HOLDER	1	
	VSC5249	REFLECTION PLATE	1	
■ E17	VEP80C15A	HEAD PHONE P.C.BOARD0	1	(RTL)
C1001,02	ECUX1H151JCV	C.CAPACITOR CH 50V 150P	2	
FL1001,02	VLF1016A223	FILTER	2	
IC1001	NJM4556AM	IC	1	C0ABBB000042
J1001	VJJ0378	M6 JACK	1	K2HB103B0019
P1001	K1KA08B00188	CONNECTOR (MALE)	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
Q1001,02	2SD1328	TRANSISTOR	2	
R1001	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1002	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R1003	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R1004	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R1005	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R1006	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1010	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R1011	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R1012	ERJ3GEYJ122	M.RESISTOR CH 1/16W 1.2K	1	
R1013	ERJ3GEYJ273	M.RESISTOR CH 1/16W 27K	1	
R1014	ERJ6GEYG331	M.RESISTOR CH 1/10W 330	1	
R1015	ERJ6GEYG271	M.RESISTOR CH 1/10W 270	1	
R1016	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
VR1001	EVUNCA040A14	V.RESISTOR 10K	1	
		MISCELLANEOUS		
	VMP6818	FRONT JACK ANGLE	1	
	XTV3+6F	SCREW	1	
	VMP5137	HEAD PHONE GND ANGLE	1	
	VMT0493	CUSHION	1	
■ E18	VEP80C16A	EJECT P.C.BOARD0	1	(RTL)
SW2001	VSP1005	SWITCH	1	K0H1BA000148
		MISCELLANEOUS		
	VWJ03CN060AA	FLAT CABLE	1	
■ E19	VEP80856A	CARRIGE P.C.BOARD0	1	(RTL)
P1	VJP1249T	CONNECTOR (MALE)	1	K1KA09B00028
P2	VJS2889A012	CONNECTOR (FEMALE)	1	
P3	VJS2889A016	CONNECTOR (FEMALE)	1	
R1-R7	ERDS2TJ221	C.RESISTOR 1/4W 220	7	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

ELECTRICAL REPLACEMENT PARTS LIST (AJ-YA455P)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
C3000,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3002,03	EEVHB0J470	E.CAPACITOR 6.3V 47U	2	
C3004-06	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3007	EEVHB0J470	E.CAPACITOR 6.3V 47U	1	
C3008	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3100,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3103,04	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3107	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3200,01	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3202	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3203	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3204-06	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	3	
C3207	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C3208	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3209	ECUX1H153KBV	C.CAPACITOR CH 50V 0.015U	1	
C3210	ECUX1H040CCV	C.CAPACITOR CH 50V 4P	1	
C3211	ECUX1H472KBV	C.CAPACITOR CH 50V 4700P	1	
C3212	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3213,14	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	2	
C3215,16	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3217	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3218	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3219	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3220	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3221	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3222	ECUX1H222KBV	C.CAPACITOR CH 50V 2200P	1	
C3223	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3224	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3225	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3226	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3227	ECUX1C104KBV	C.CAPACITOR CH 16V 0.1U	1	
C3228	ECUX1E223KBV	C.CAPACITOR CH 25V 0.023U	1	
C3229	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3230	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3330-38	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	9	
C3400-08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	9	
C3410,11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	2	
C3412	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3413-15	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3416	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3417	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3418	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3419	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3424	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3500-05	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	6	
C3508-16	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	9	
C3518	ECUX1H101JCV	C.CAPACITOR CH 50V 100P	1	
C3521-23	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3524	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3525-27	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C3528	EEVHB1C470	E.CAPACITOR 16V 47U	1	
C3529	ECUX1H103KBV	C.CAPACITOR CH 50V 0.01U	1	
C3530	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C3531	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C3532	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
D3200	LN1251CAL	DIODE	1	
D3201,02	MA151K	DIODE	2	
IC3000	XC62FP2502PR	IC	1	
IC3102,03	NVHC541MTCX	IC	2	
IC3104	NVHC245MTCX	IC	1	
IC3105	74LCX245MTCX	IC	1	
IC3200	XC62FP5002P	IC	1	
IC3201	C1AB00001385	IC	1	
IC3202	XC62FP5002P	IC	1	
IC3203	GS9028-CKA	IC	1	C1AB00000365
IC3204	C1AB00001088	IC	1	
IC3205	XC62FP5002P	IC	1	
IC3300	74LCX541MTCX	IC	1	
IC3301	GS9023-CFY	IC	1	
IC3400	74LCX541MTCX	IC	1	
IC3401	GS9023-CFY	IC	1	
IC3402	C1AB00001386	IC	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
IC3404	XC62FP5002P	IC	1	
IC3405	NVHC541MTCX	IC	1	
IC3500,01	NVHC541MTCX	IC	2	
IC3502	C1ZBZ0001837	IC	1	
IP3503	C3ZBH0000010	IC	1	
IC3505	UPD6456T611Y	IC	1	C1AB00000555
IC3506	XC62FP5002P	IC	1	
IC3507	C1AB00001386	IC	1	
ID0	VVVSI3569	SOFTWARE	1	
J3200,01	VJP3461	CONNECTOR (MALE)	2	K1QZA1BA0001
J3400,01	VJP3461	CONNECTOR (MALE)	2	K1QZA1BA0001
J3500	VJP3461	CONNECTOR (MALE)	1	K1QZA1BA0001
L3000,01	VLF1151A132	COIL	2	
L3200	VLQ0426J015	COIL 15UH	1	
L3201,02	VLQ0426J010	COIL 1UH	2	
L3400,01	VLQ0426J010	COIL 1UH	2	
L3500,01	VLQ0426J010	COIL 1UH	2	
P3000	K1KA96B00032	CONNECTOR (MALE)	1	
P3500	VJP3125B008	CONNECTOR (MALE)	1	
QR3200	UN2214	TRANSISTOR-RESISTOR	1	
R3100,01	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	2	
R3102-05	D1H84734A008	COMBI.R-R	4	
R3200	ERJ3RED750	M.RESISTOR CH 1/16W 75	1	
R3201	ERJ3RED390	M.RESISTOR CH 1/16W 39	1	
R3202,03	ERJ3RED750	M.RESISTOR CH 1/16W 75	2	
R3204	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3205	ERJ3RBD182	M.RESISTOR CH 1/16W 1.8K	1	
R3206,07	ERJ3GEYJ123	M.RESISTOR CH 1/16W 12K	2	
R3209	ERJ3GEYJ821	M.RESISTOR CH 1/16W 820	1	
R3211	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3212	ERJ3RBD361	M.RESISTOR CH 1/16W 360	1	
R3213	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3214-17	ERJ3RED750	M.RESISTOR CH 1/16W 75	4	
R3218	ERJ6RED560	M.RESISTOR CH 1/10W 56	1	
R3219-22	ERJ6RED750	M.RESISTOR CH 1/10W 75	4	
R3223	ERJ3RBD472	M.RESISTOR CH 1/16W 4.7K	1	
R3224	ERJ3RBD683	M.RESISTOR CH 1/16W 68K	1	
R3225	ERJ6RED750	M.RESISTOR CH 1/10W 75	1	
R3226-28	D1H810140001	COMBI.R-R	3	
R3229	ERJ3GEYJ470	M.RESISTOR CH 1/16W 47	1	
R3330	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3333	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3334	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3335	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	1	
R3336	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	1	
R3400	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3401-04	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	4	
R3405-08	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	4	
R3409	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3410	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3411	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3413	ERJ3RBD361	M.RESISTOR CH 1/16W 360	1	
R3415	ERJ3RED510	M.RESISTOR CH 1/16W 51	1	
R3416-19	ERJ6RED750	M.RESISTOR CH 1/10W 75	4	
R3420	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3421,22	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R3423	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3424	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3500,01	ERJ3GEYJ100	M.RESISTOR CH 1/16W 10	2	
R3502-04	D1H833040002	COMBI.R-R	3	
R3505,06	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R3508	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3509	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3510	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R3511	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R3512,13	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R3514	ERJ3GEYJ331	M.RESISTOR CH 1/16W 330	1	
R3515	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R3516-18	D1H810140001	COMBI.R-R	3	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R3519	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3520	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R3521	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R3522-24	D1H810140001	COMBI.R-R	3	
R3526	ERJ3RBD361	M.RESISTOR CH 1/16W 360	1	
R3528	ERJ3RED510	M.RESISTOR CH 1/16W 51	1	
R3529	D1H833040002	COMBI.R-R	1	
R3530,31	ERJ3GEYJ330	M.RESISTOR CH 1/16W 33	2	
R3533-37	ERJ6RED750	M.RESISTOR CH 1/10W 75	5	
R3538-41	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	4	
TG3000	EYF6CU	TEST POINT	1	
TG3200	EYF6CU	TEST POINT	1	
TG3400	EYF6CU	TEST POINT	1	
		MISCELLANEOUS		
	VML2144	CARD PULLER	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks

ELECTRICAL REPLACEMENT PARTS LIST (AJ-YAD455P)

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
■ E1	VEP83559A	DIF P.C.BOARD	1	(RTL)
■ E2	VEP80C21A	DIF JACK P.C.BOARD	1	(RTL)
■ E1	VEP83559A	DIF P.C.BOARD	1	(RTL)
C201-03	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C204	EEVHB1C101P	E.CAPACITOR 16V 100U	1	
C205-09	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C210-13	EEVHB1C470	E.CAPACITOR 16V 47U	4	
C214-17	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	4	
C218	EEVHB1A330	E.CAPACITOR 10V 33U	1	
C219-21	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C222	EEVHB1A330	E.CAPACITOR 10V 33U	1	
C223-25	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
C227	EEVHB1C100	E.CAPACITOR 16V 10U	1	
C228	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C230	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C233,34	VCEA1AAP330	E.CAPACITOR 10V 33U	2	
C301,02	ECUX1H150JCV	C.CAPACITOR CH 50V 15P	2	
C305-13	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	9	
C401-05	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C501-05	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C507-11	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	5	
C512	ECUM1H271JCN	C.CAPACITOR CH 50V 270P	1	
C513	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C514	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C515	ECUM1C105ZFN	C.CAPACITOR CH 16V 1U	1	
C516	ECUX1H120JCV	C.CAPACITOR CH 50V 12P	1	
C519	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C601-16	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	16	
C701-08	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	8	
C802	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	1	
C901-03	ECUX1E104ZFV	C.CAPACITOR CH 25V 0.1U	3	
D201,02	MA701A	DIODE	2	
D301,02	LN1251CAL	DIODE	2	
D701,02	LN1251CAL	DIODE	2	
IC201-04	XC62FP3202P	IC	4	
IC206	LT1086CM	IC	1	C0CBAYG00001
IC207	74AHC1G08DCK	IC	1	
IC208	NVHC541MTCX	IC	1	
IC209	TVS1129	IC	1	C0JBAZ000525
IC210	C0EBE0000074	IC	1	
IC301	M31010M6115H	IC	1	
IC302	74AHC1G32DCK	IC	1	
IC402	AK6440AF	IC	1	
IC403,04	M5256DVP10VL	IC	2	C3BBFC000171
IC405	IDT71V321L5F	IC	1	C3HBCC000023
IC501	TSB13LV11PBW	IC	1	
IC601	C9ZB00000370	IC	1	
IC704	NVHC244MTCX	IC	1	
IC705	X9144L7T100	IC	1	
IC801	S51V18165D6T	IC	1	
IC901	C0JBAZ001544	IC	1	
IC902	NVHC541MTCX	IC	1	
IC903	74LCX244MTCX	IC	1	
ID401	VVVSI3570B	SOFTWARE	1	
ID702	VVVSI3571A	SOFTWARE	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
ID705	VVVSI3622	SOFTWARE	1	
IP401	C3FBLD000046	IC	1	
IP702	C3FBLD000046	IC	1	
L201-03	VLF1151A132	COIL	3	
L501,02	J0LC00000008	FILTER	2	
P101	K1KA96B00032	CONNECTOR (MALE)	1	
P401	VJS3791B020	CONNECTOR (FEMALE)	1	
P501	K1KA06B00120	CONNECTOR (MALE)	1	
P701,02	VJP3125B008	CONNECTOR (MALE)	2	
QR301,02	UN5213	TRANSISTOR-RESISTOR	2	
QR701,02	UN5213	TRANSISTOR-RESISTOR	2	
R201	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R202	D1H810240001	COMBI.R-R	1	
R203	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R204	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R205	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R206	ERJ6RBD101	M.RESISTOR CH 1/10W 100	1	
R207	ERJ6RED470	M.RESISTOR CH 1/10W 47	1	
R302	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R303	ERJ3GEYJ431	M.RESISTOR CH 1/16W 430	1	
R304	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R305	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R306	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R307,08	ERJ3GEYJ104	M.RESISTOR CH 1/16W 100K	2	
R309,10	D1H84734A008	COMBI.R-R	2	
R316	D1H810240001	COMBI.R-R	1	
R317	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R318	D1H810240001	COMBI.R-R	1	
R320-24	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	5	
R325	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R327	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R328,29	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R403	D1H84734A008	COMBI.R-R	1	
R404-08	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	5	
R409	D1H810240001	COMBI.R-R	1	
R410	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R451	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R502	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R503,04	D1H84734A008	COMBI.R-R	2	
R506-08	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	3	
R509	D1H84734A008	COMBI.R-R	1	
R510	ERJ3GEYJ394	M.RESISTOR CH 1/16W 390K	1	
R511	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R512	ERJ6RBD622	M.RESISTOR CH 1/10W 6.2K	1	
R513,14	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	2	
R515	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R516,17	ERJ3GEYJ560	M.RESISTOR CH 1/16W 56	2	
R518	ERJ3GEYJ512	M.RESISTOR CH 1/16W 5.1K	1	
R519	ERJ3GEYJ105	M.RESISTOR CH 1/16W 1M	1	
R520	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	1	
R521,22	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R601-03	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R604,05	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	2	
R606	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R607	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R608	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R623	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R626-28	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	3	
R701	D1H810240001	COMBI.R-R	1	
R704	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R705	D1H810240001	COMBI.R-R	1	
R707-11	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	5	
R712	ERJ3GEYJ101	M.RESISTOR CH 1/16W 100	1	
R713	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R716	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	1	
R717	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R718,19	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	2	
R720	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R721	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R722	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks
R723	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R724	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R726,27	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	2	
R728	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R732	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R733	ERJ3GEYJ182	M.RESISTOR CH 1/16W 1.8K	1	
R734	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R735	ERJ3GEYG472	M.RESISTOR CH 1/16W 4.7K	1	
R736	ERJ3GEYJ333	M.RESISTOR CH 1/16W 33K	1	
R747-49	ERJ3GEYJ680	M.RESISTOR CH 1/16W 68	3	
R904	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R905	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R907	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
R908	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	
R909,10	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	2	
R912-14	ERJ3GEYJ220	M.RESISTOR CH 1/16W 22	3	
R916	ERJ3GEYG102	M.RESISTOR CH 1/16W 1K	1	
SW201	VSP1005	SWITCH	1	K0H1BA000148
SW301	VSS0367-08B	SWITCH	1	
SW701	VSS0367-04B	SWITCH	1	
X301	VSX0883	CRYSTAL OSCILLATOR	1	H0J200500015
X501	VSX0974	CRYSTAL OSCILLATOR	1	H0J245500010
		MISCELLANEOUS		
	VML2143	CARD PULLER	1	
■ E2	VEP80C21A	DIF JACK P.C.BOARD	1	(RTL)
P101	VJP3993	CONNECTOR (MALE)	1	K1FB106B0003
P102	K1KA06B00120	CONNECTOR (MALE)	1	
R101-04	ERDS2T0	C.RESISTOR 1/4W 0	4	
SW2001	VSP1005	SWITCH	1	K0H1BA000148
		MISCELLANEOUS		
	VWJ03CN060AA	FLAT CABLE	1	
	VEE0N57	DIF CABLE	1	
	VJF1344	CONNECTOR HOLDER (1)	1	
	VJF1345	CONNECTOR HOLDER (2)	1	
	XYN2+J6	SCREW	4	
	VMP6821	OPTION ANGLE	1	
	XTN3+6FFY	SCREW	4	

Ref.No.	Part No.	Part Name & Description	Pcs	Remarks